

Program Complot
(Version 2018-1)

by

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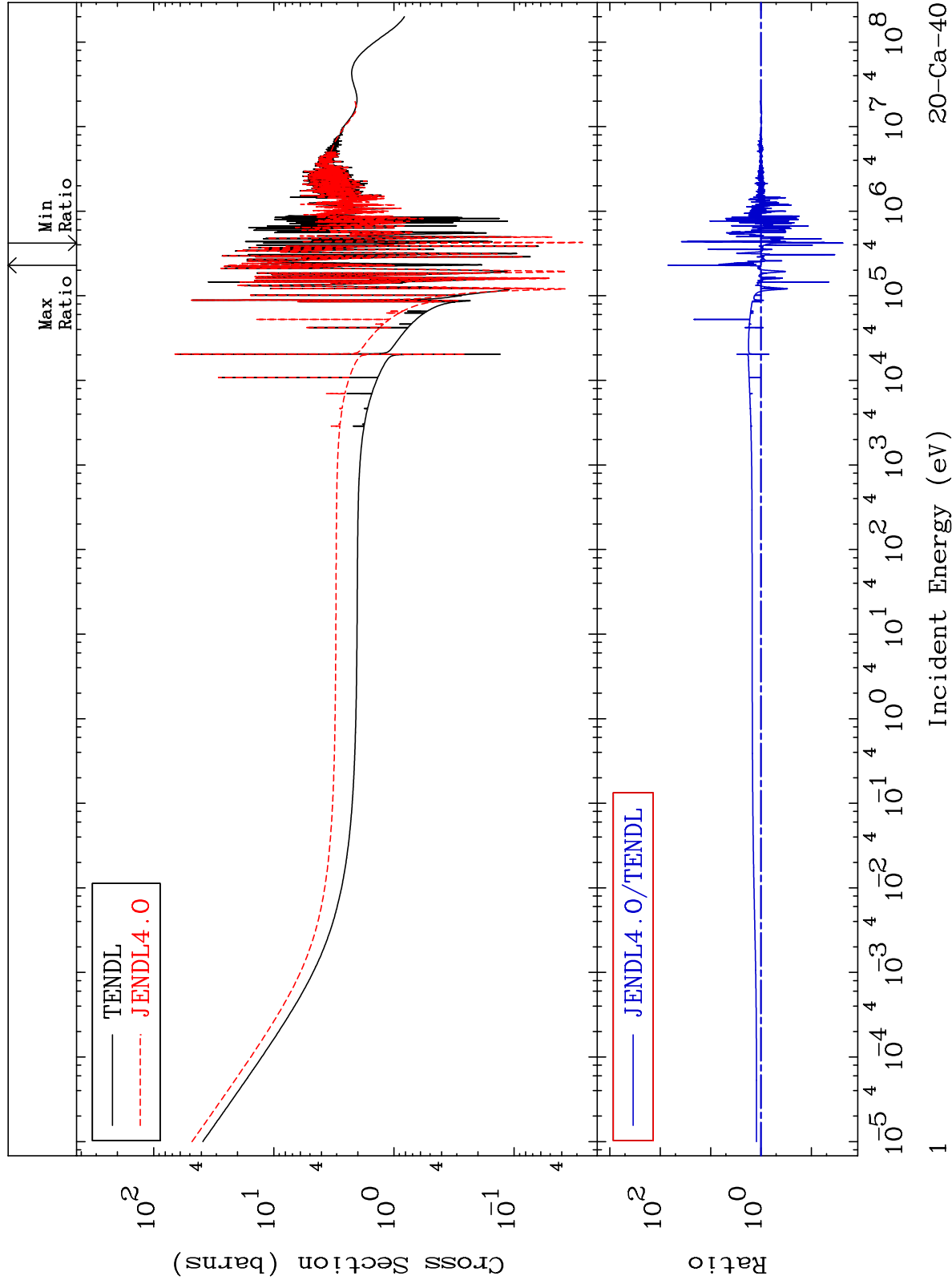
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 2025

Total
Cross Section

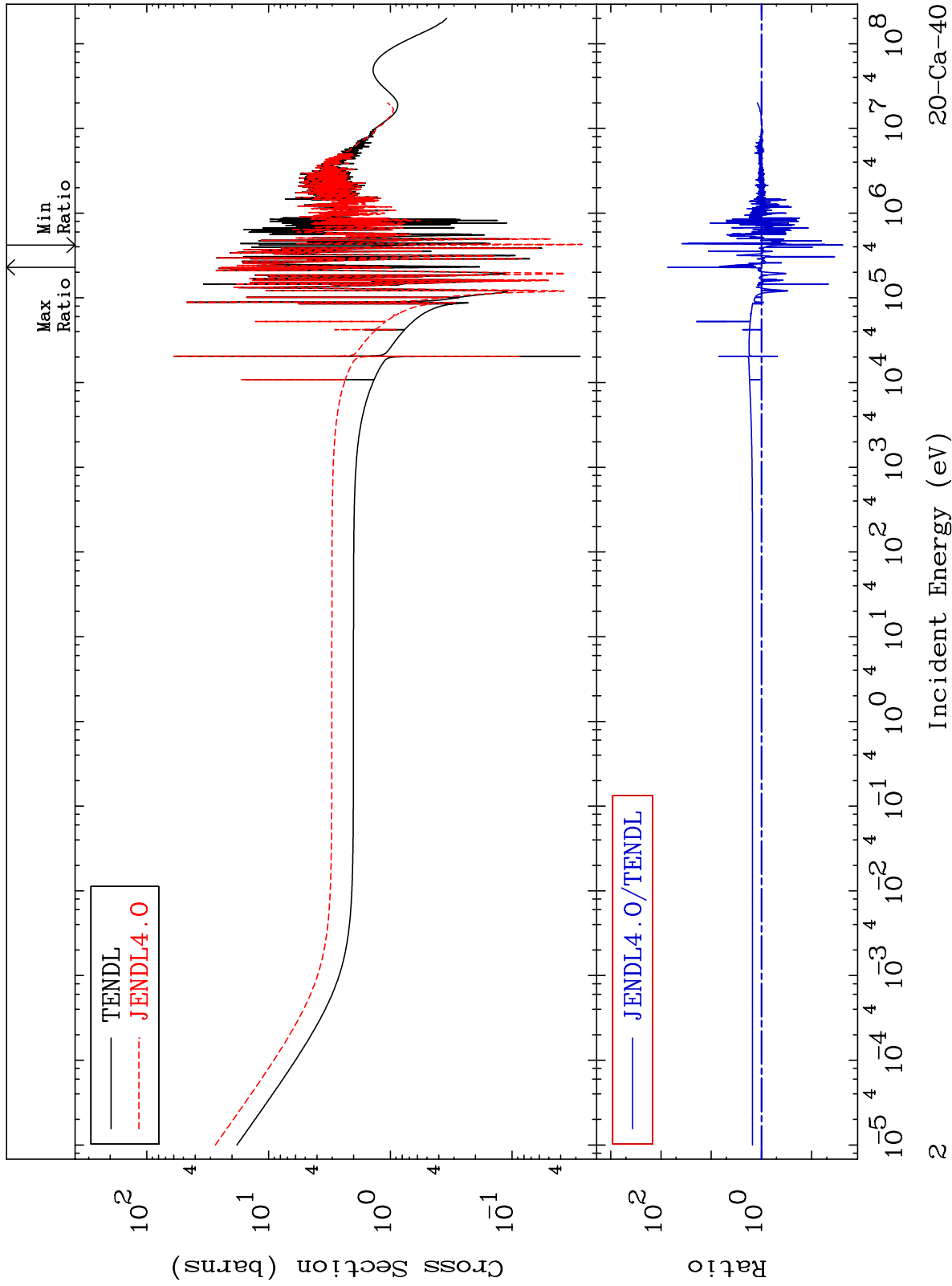
20-Ca-40
-97.62 To 6908. %



MAT 2025

Elastic
Cross Section

20-Ca-40
-97.59 To 7310. %



20-Ca-40

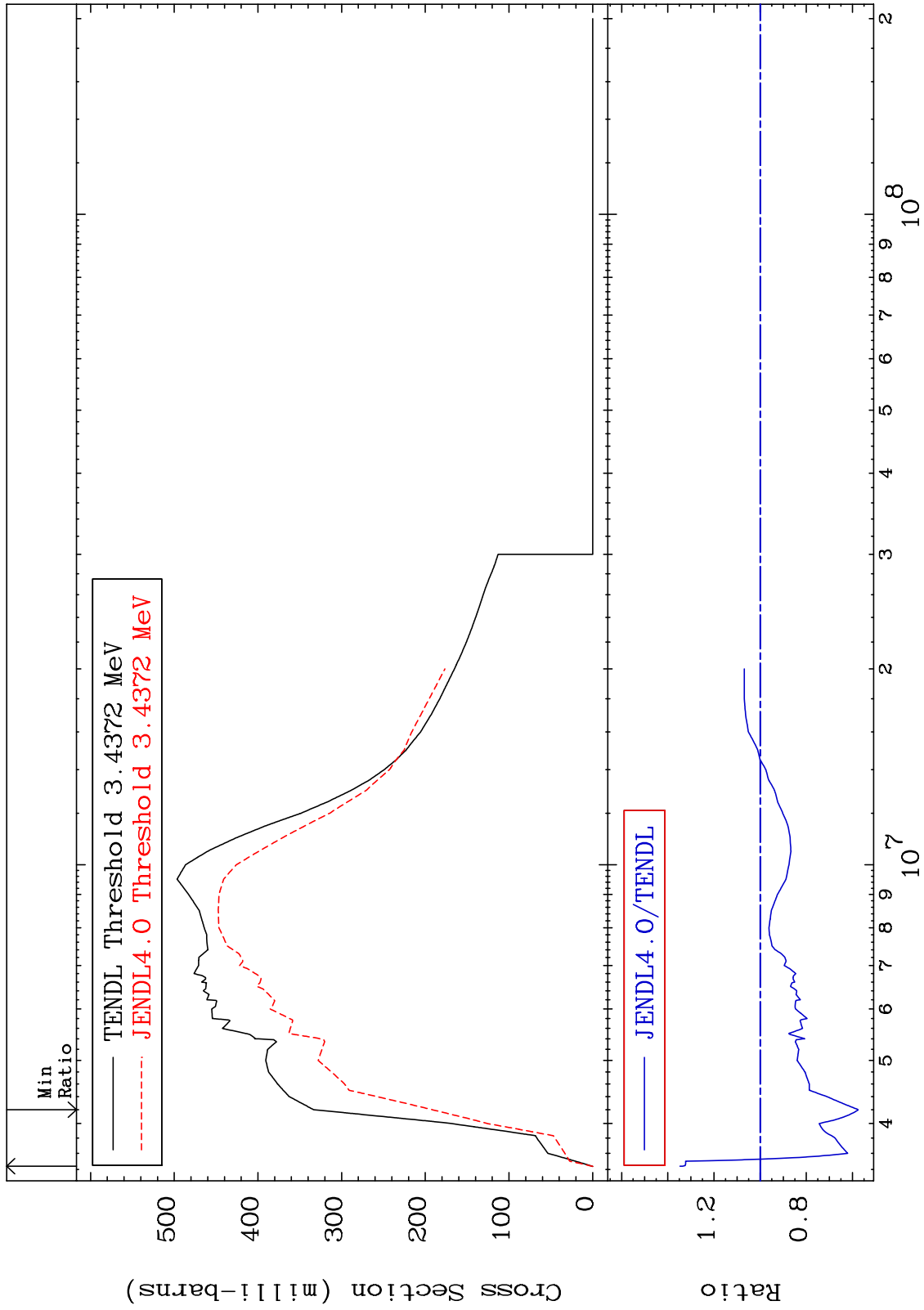
Incident Energy (eV)

2

MAT 2025

Inelastic
Cross Section

20-Ca-40
-42.55 To 34.70 %



3

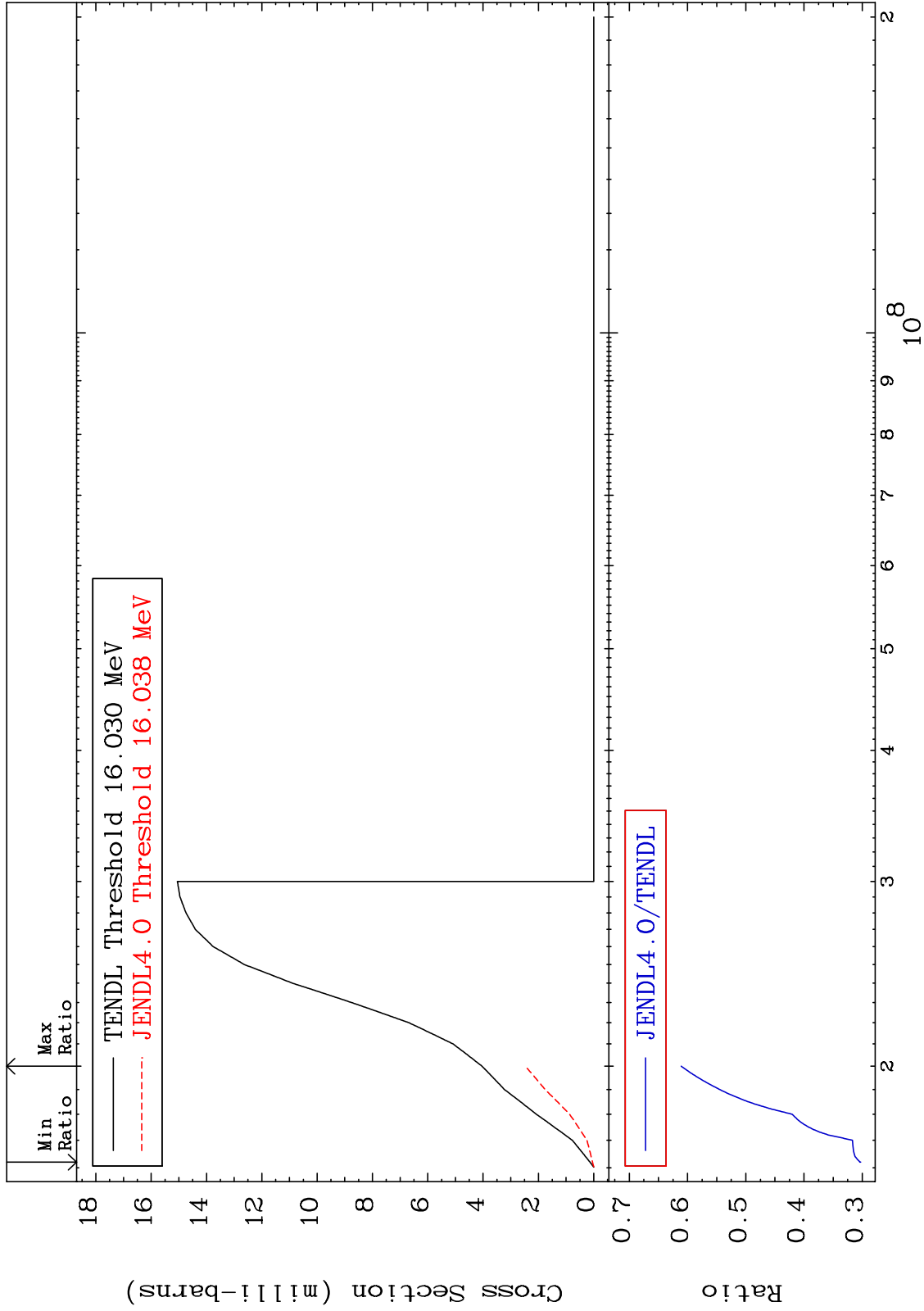
MAT 2025

(n,2n)

²⁰Ca-40

Cross Section

-69.59 To -38.91%



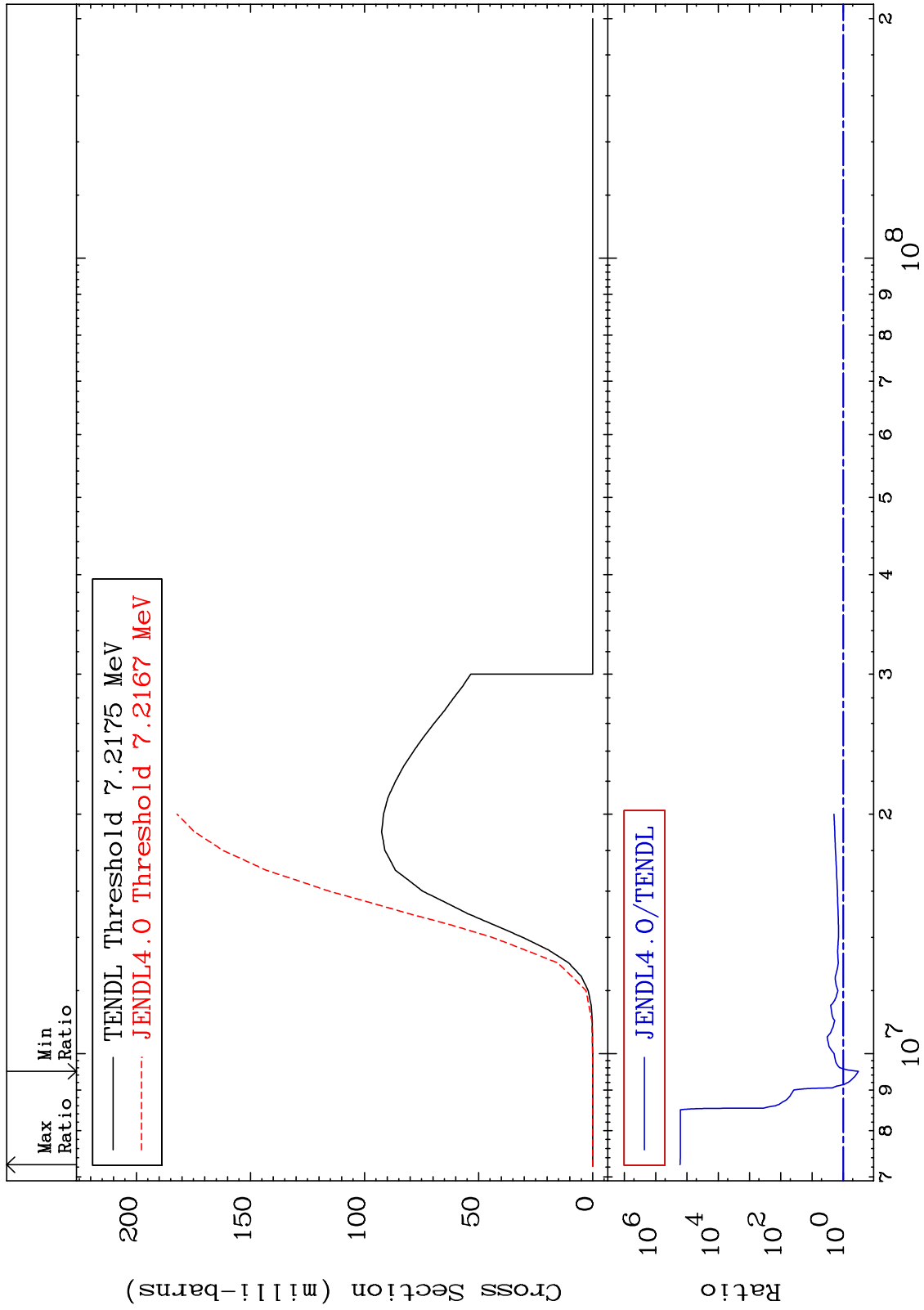
MAT 2025

(n,n') α

20-Ca-40

Cross Section

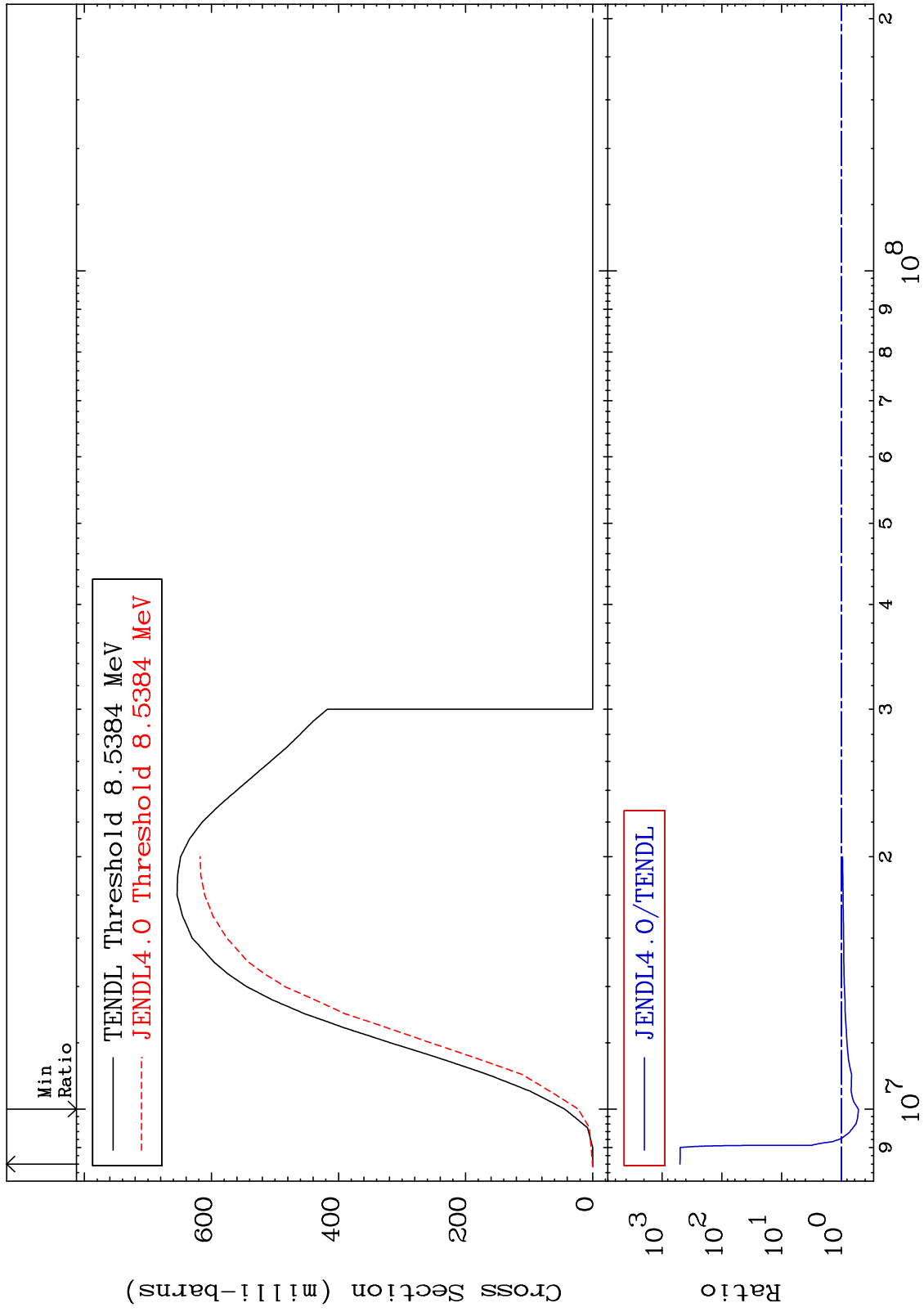
-67.02 To 9999. %



MAT 2025

(n,n') p
Cross Section

20-Ca-40
-48.29 To 9999. %



20-Ca-40

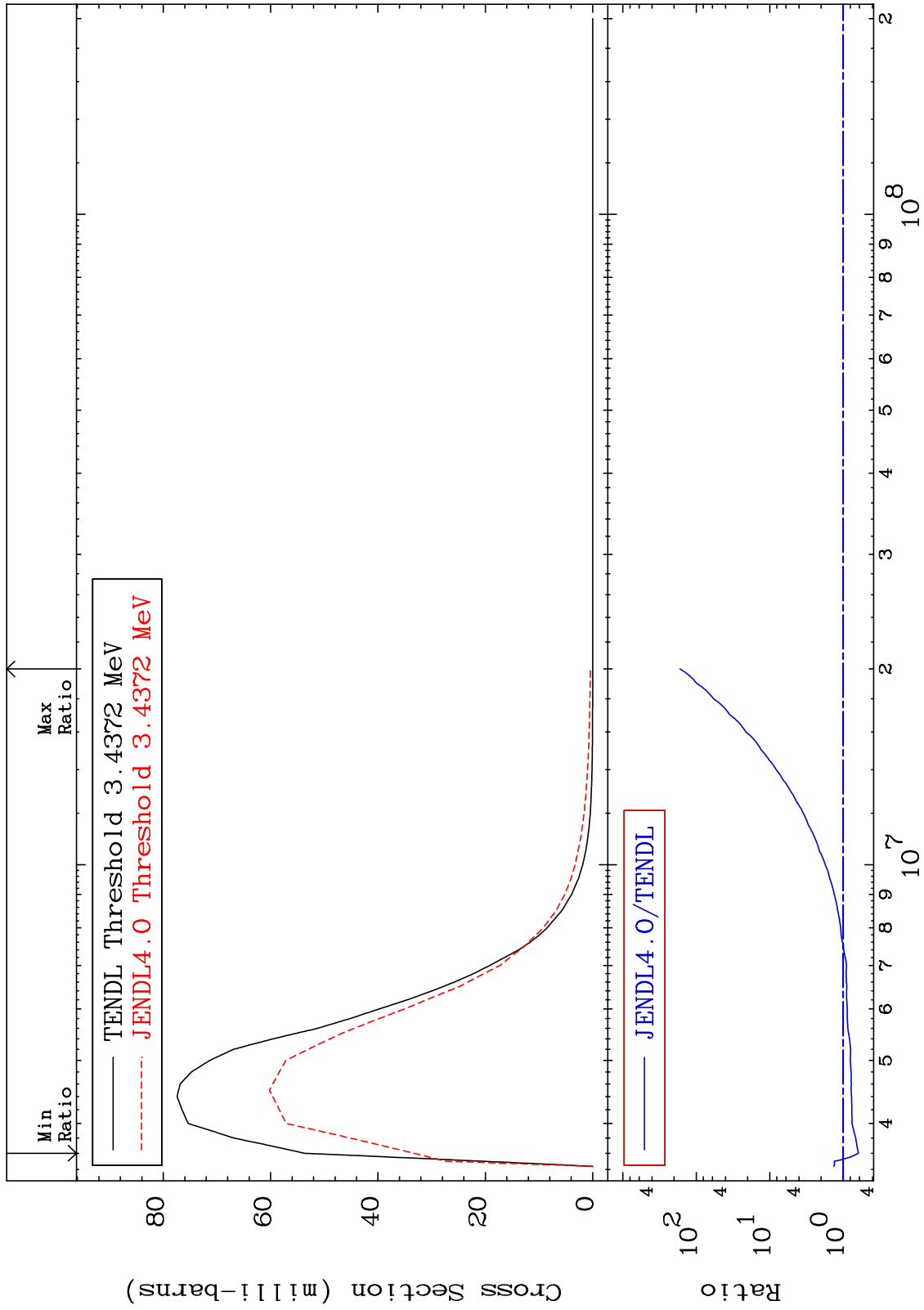
Incident Energy (eV)

6

MAT 2025

MT= 51 (n,n') Level
Cross Section

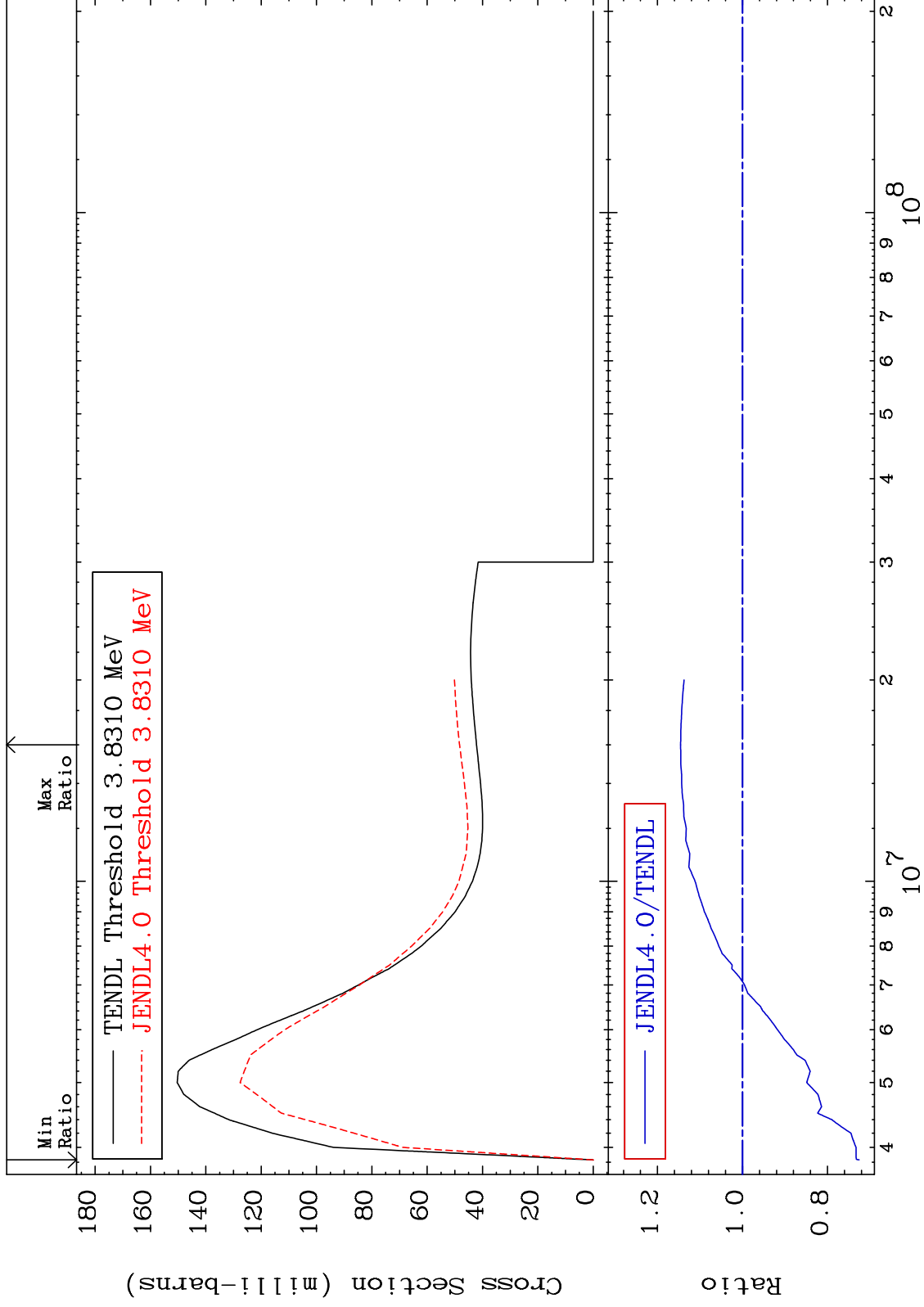
20-Ca-40
-37.91 To 9999. %



MAT 2025

MT= 52 (n,n') Level
Cross Section

20-Ca-40
-27.45 To 14.56 %



8

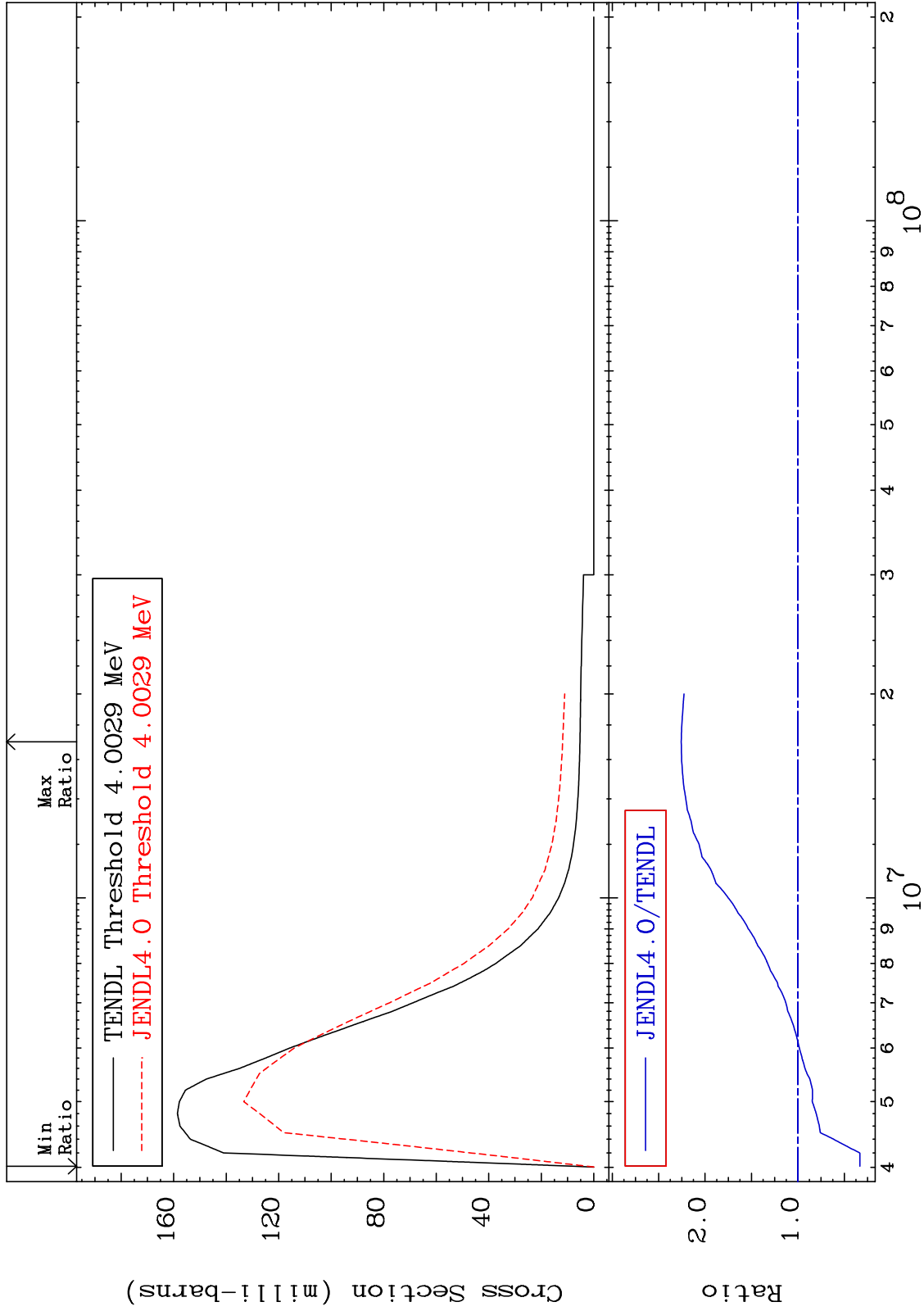
Incident Energy (eV)

20-Ca-40

MAT 2025

MT= 53 (n,n') Level
Cross Section

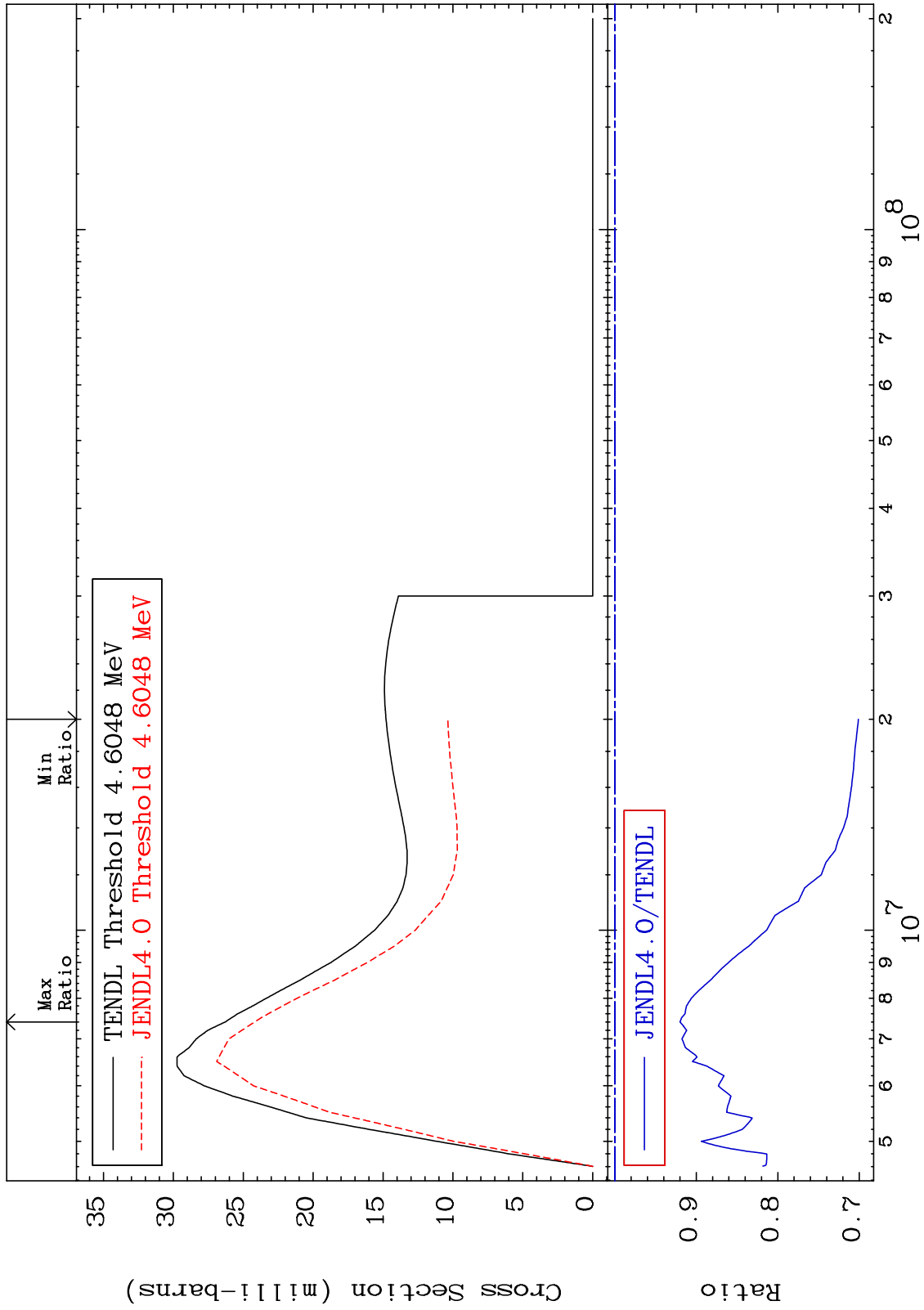
20-Ca-40
-66.85 To 125.7 %



MAT 2025

MT= 54 (n,n') Level
Cross Section

20-Ca-40
-29.89 To -8.001%



10

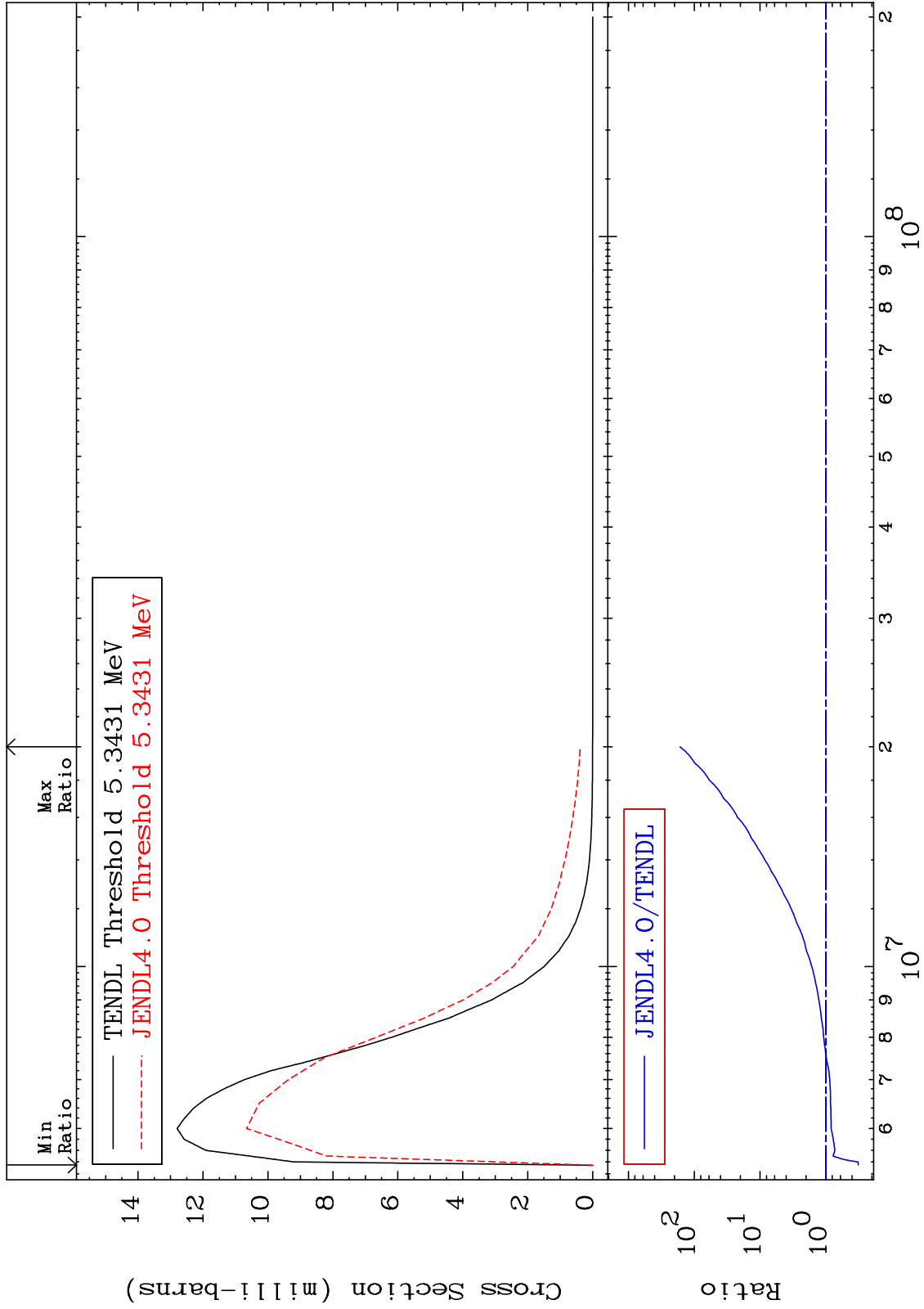
Incident Energy (eV)

20-Ca-40

MAT 2025

MT= 55 (n,n') Level
Cross Section

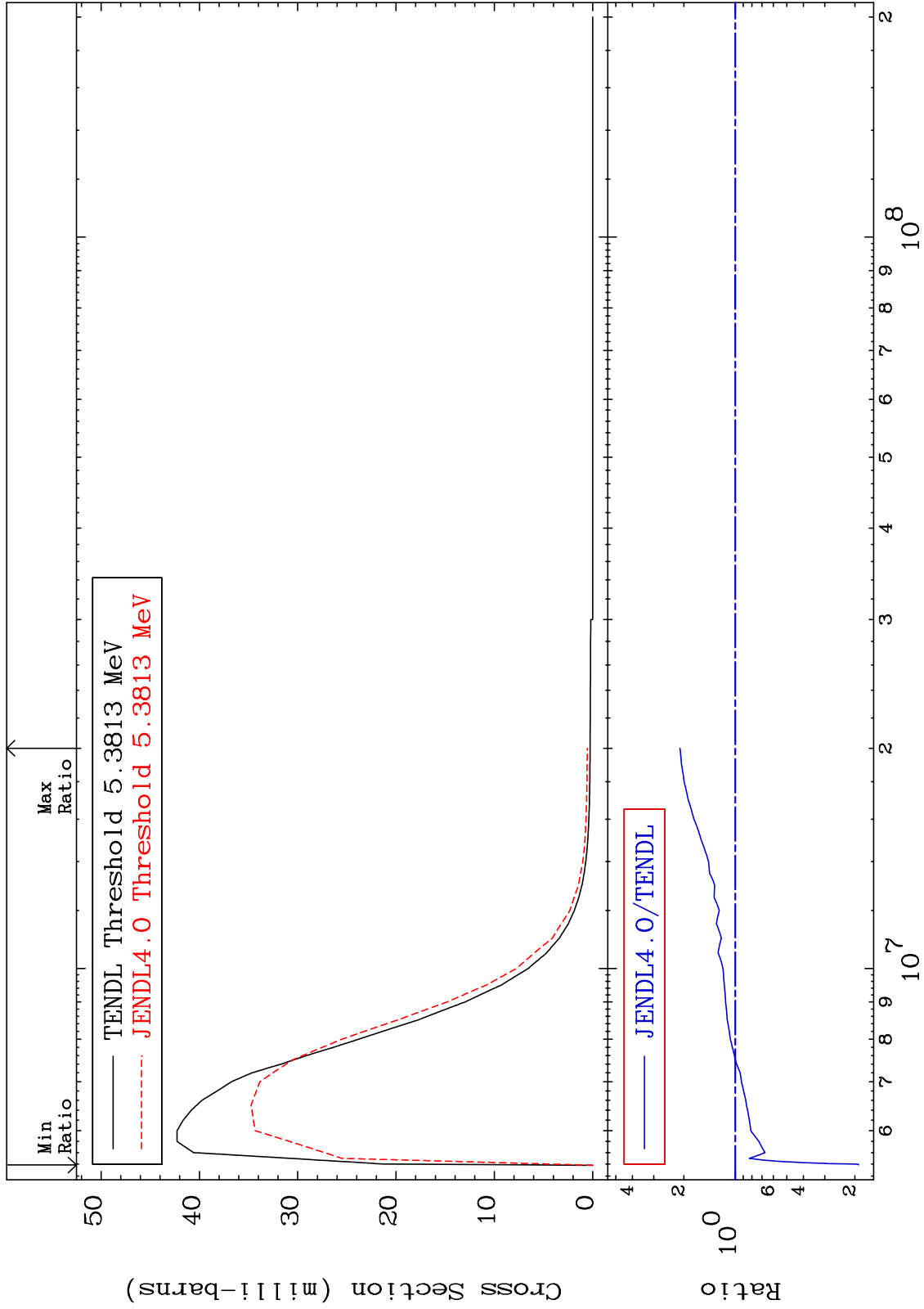
20-Ca-40
-68.01 To 9999. %



MAT 2025

MT= 56 (n,n') Level
Cross Section

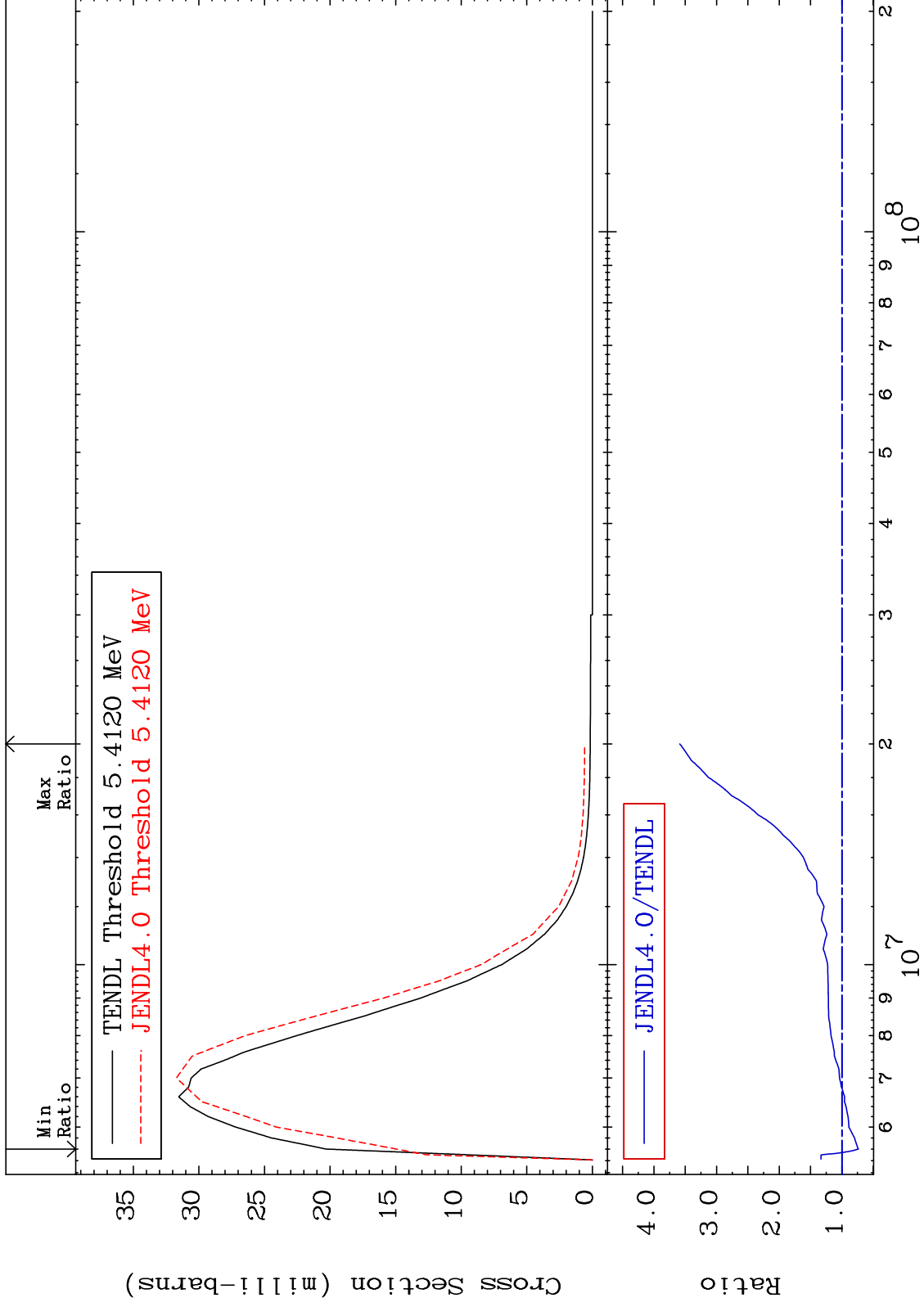
20-Ca-40
-80.91 To 110.7 %



MAT 2025

MT= 57 (n,n') Level
Cross Section

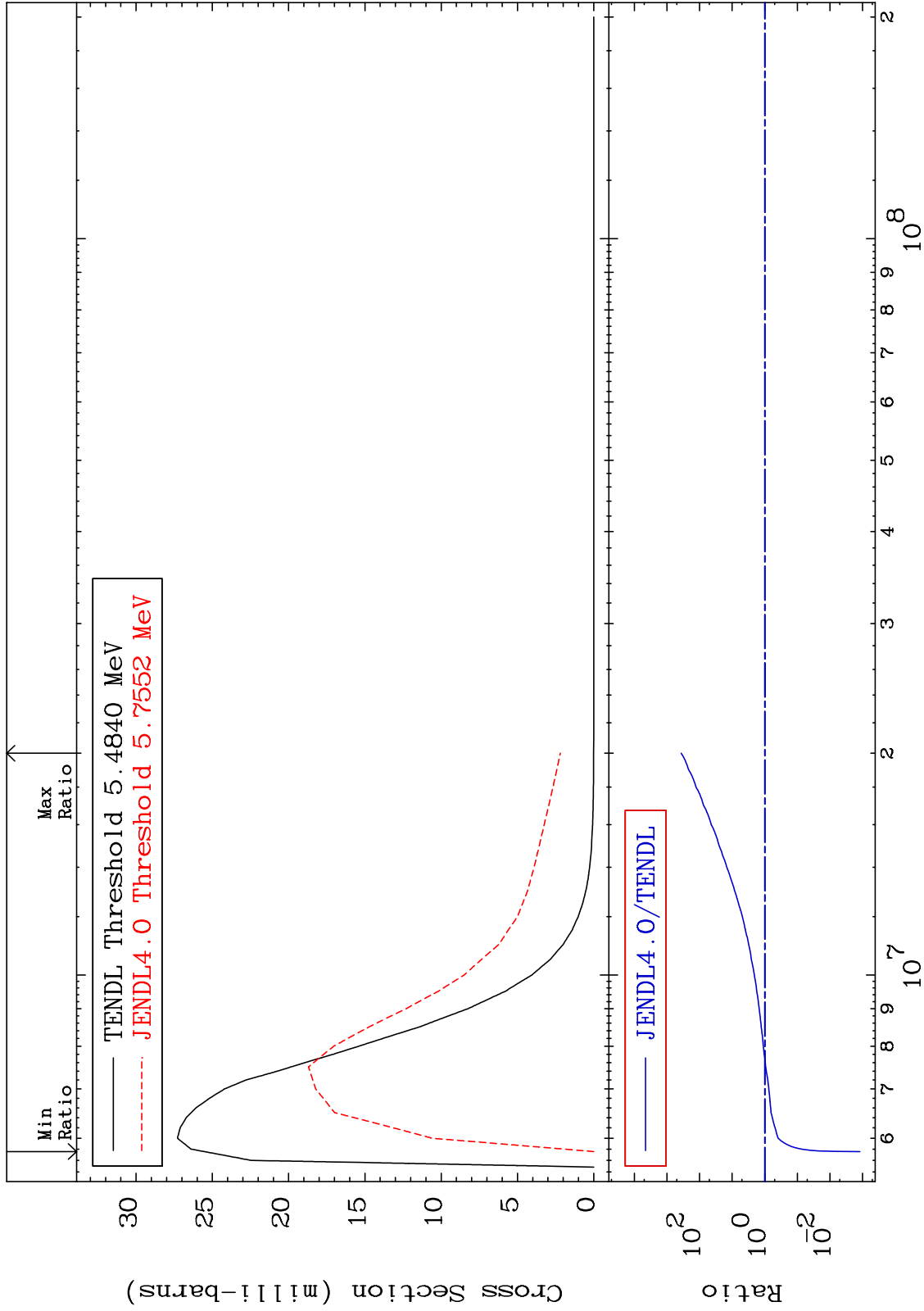
20-Ca-40
-26.34 To 258.7 %



MAT 2025

MT= 58 (n,n') Level
Cross Section

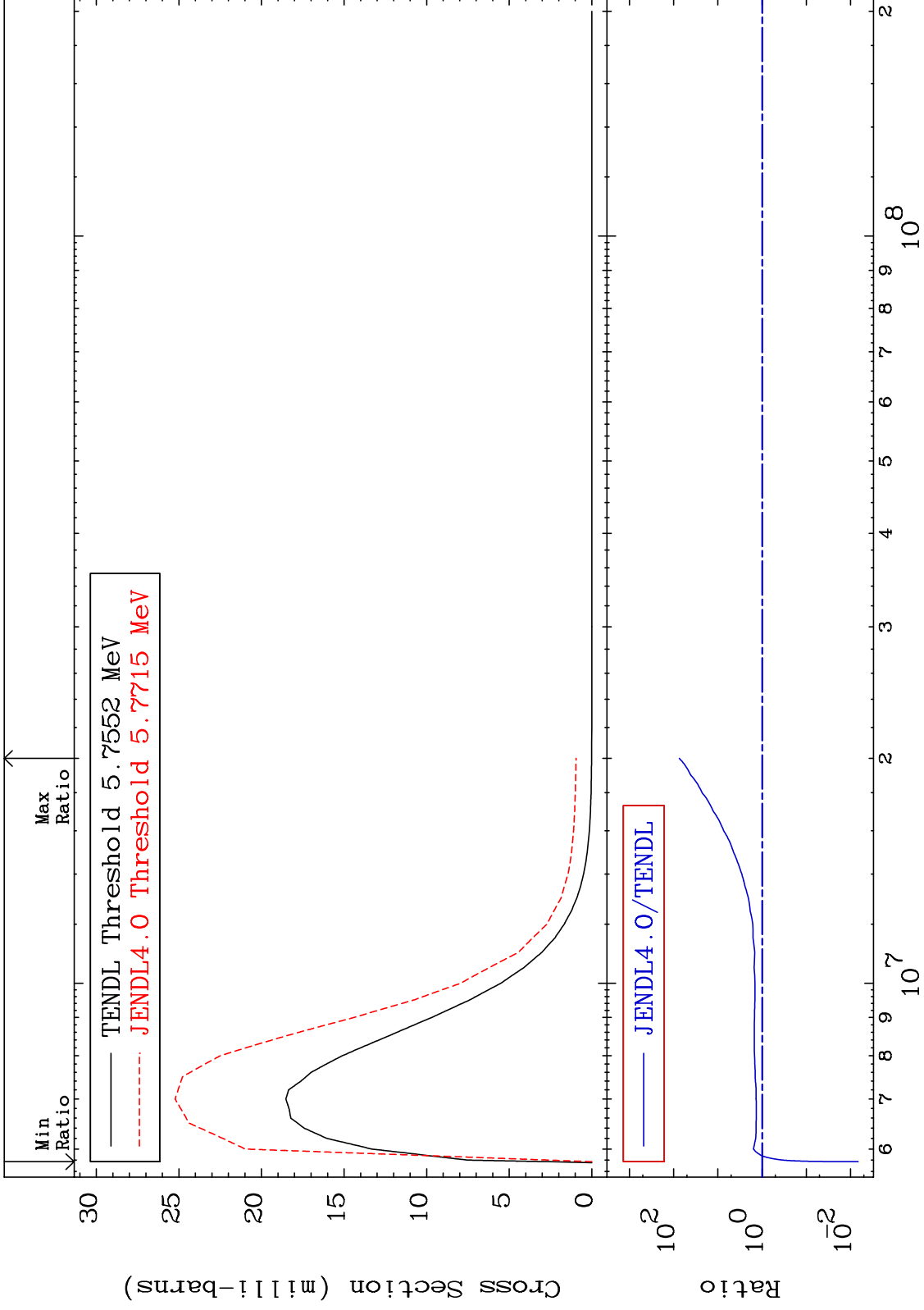
20-Ca-40
-99.88 To 9999. %



MAT 2025

MT= 59 (n,n') Level
Cross Section

20-Ca-40
-99.33 To 7341. %



15

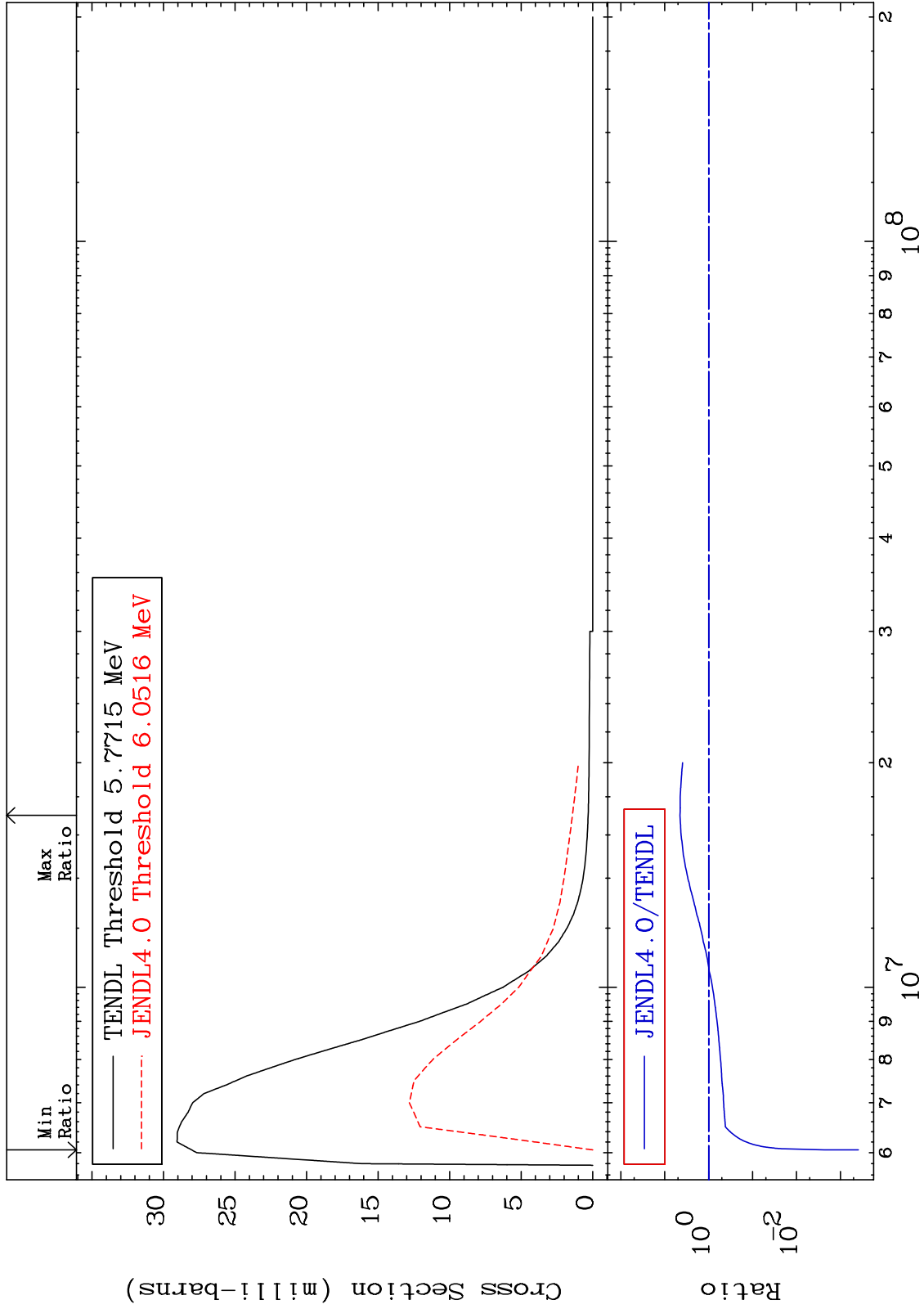
Incident Energy (eV)

20-Ca-40

MAT 2025

MT= 60 (n,n') Level
Cross Section

20-Ca-40
-99.96 To 349.0 %

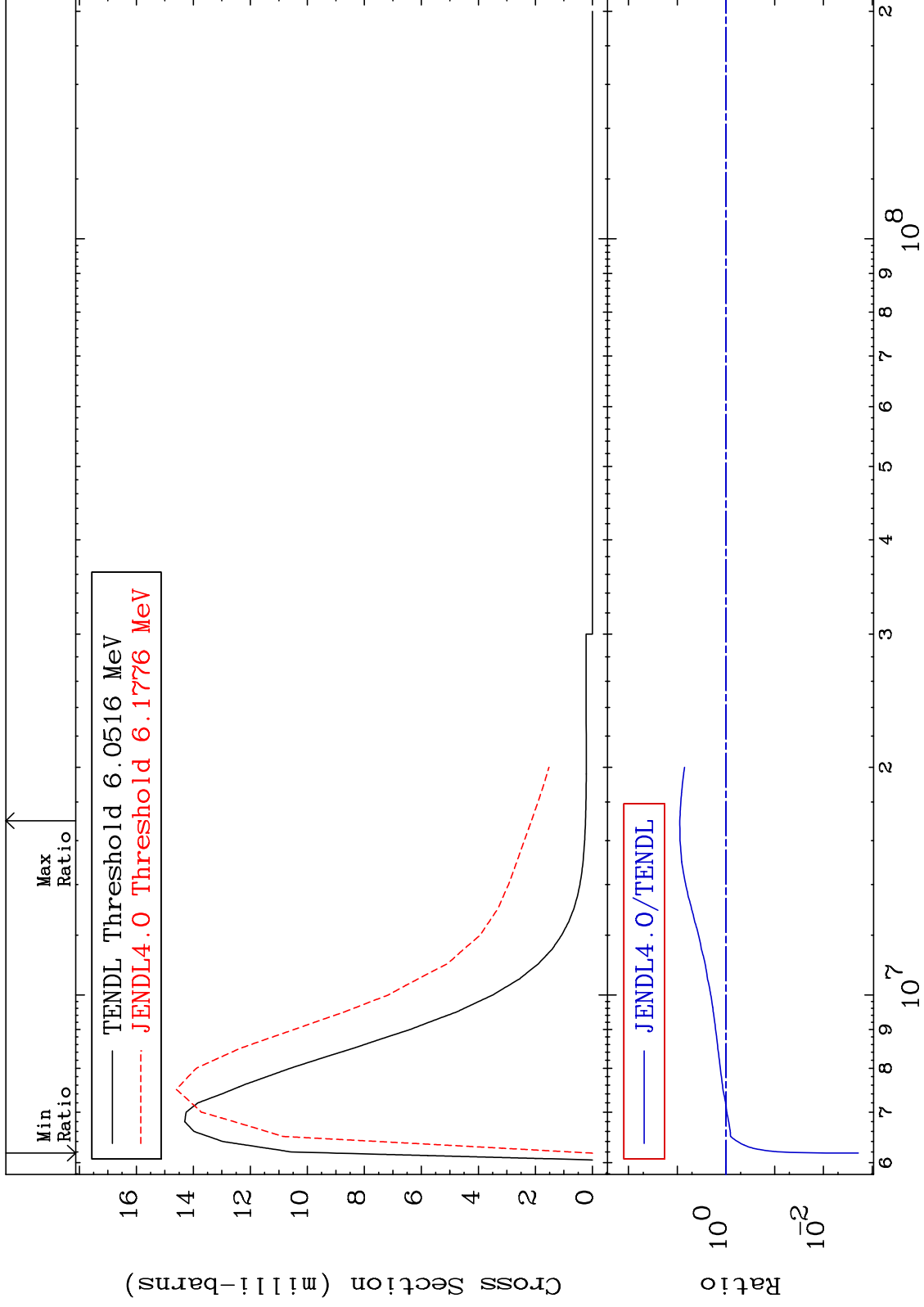


16

MAT 2025

MT= 61 (n,n') Level
Cross Section

20-Ca-40
-99.81 To 786.2 %



17

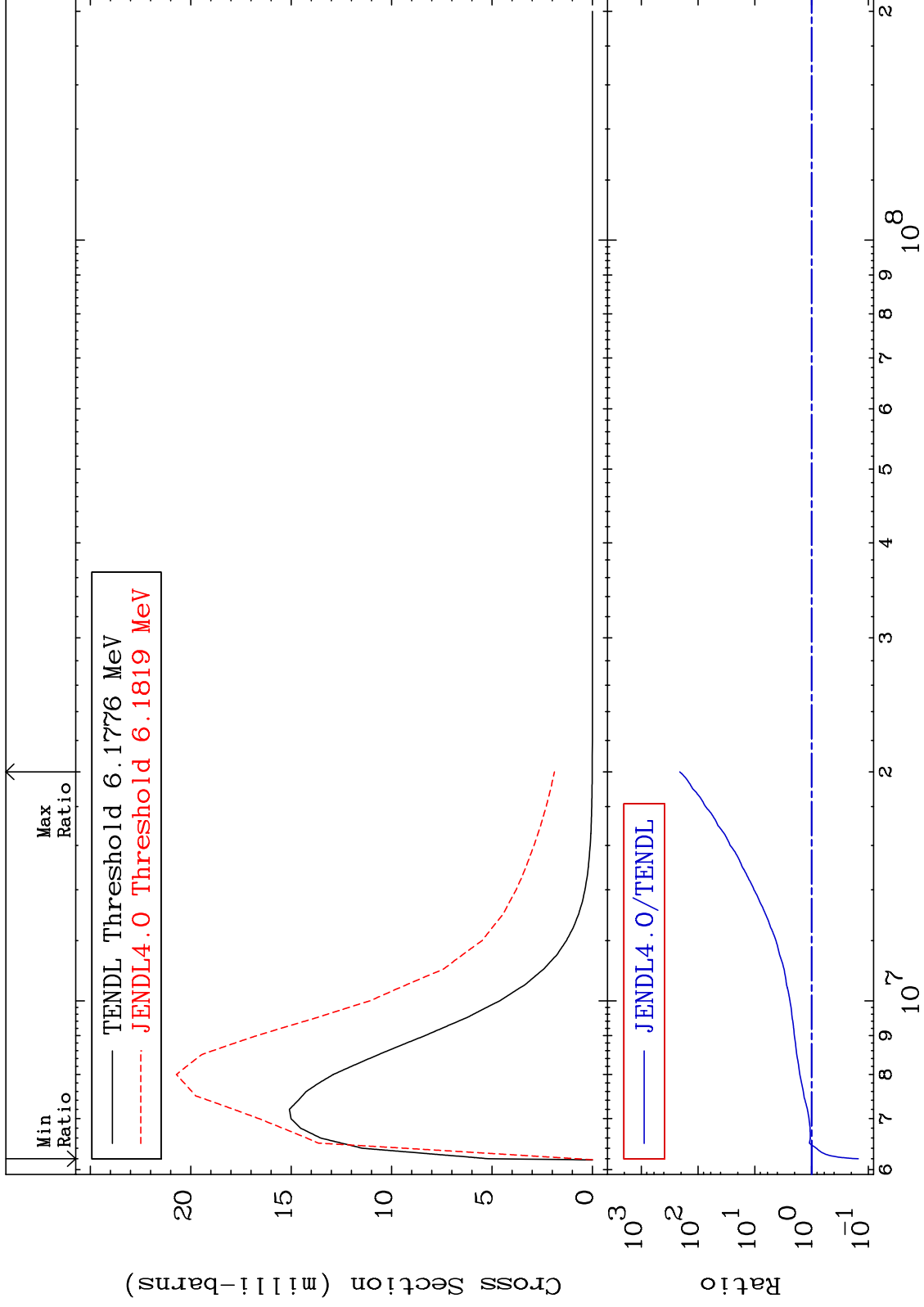
Incident Energy (eV)

20-Ca-40

MAT 2025

MT= 62 (n,n') Level
Cross Section

20-Ca-40
-85.02 To 9999. %



18

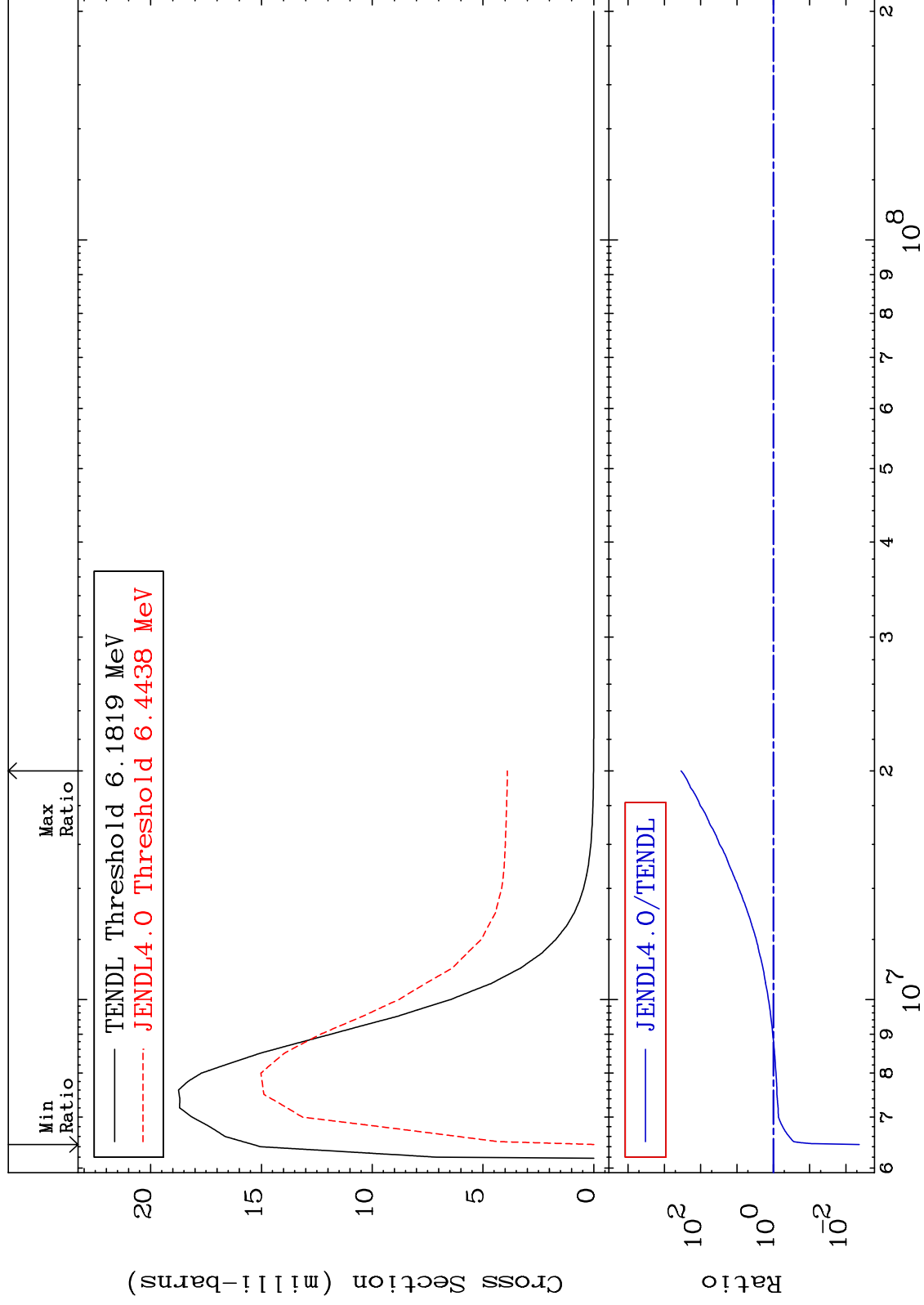
Incident Energy (eV)

20-Ca-40

MAT 2025

MT= 63 (n,n') Level
Cross Section

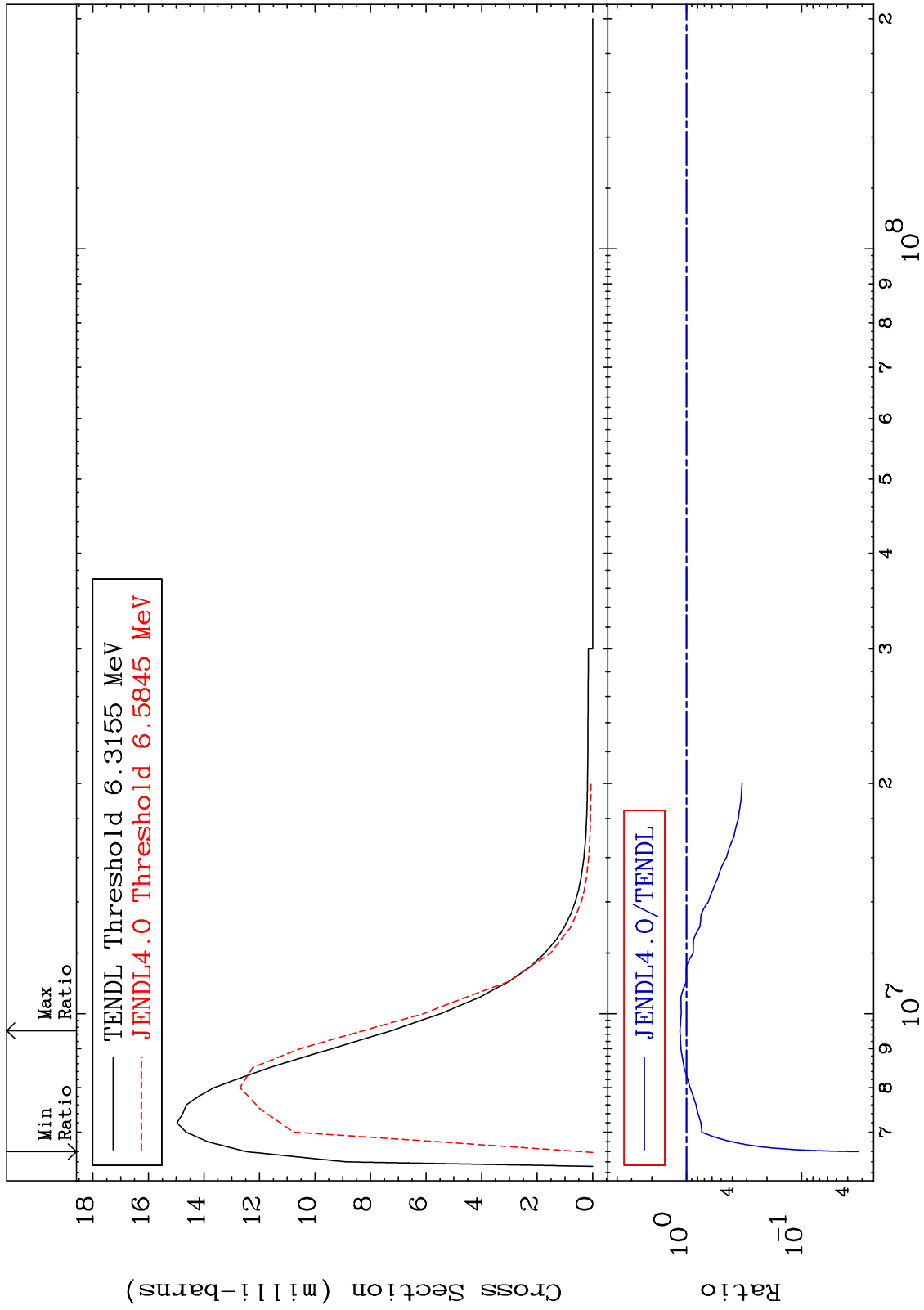
20-Ca-40
-99.57 To 9999. %



MAT 2025

MT= 64 (n,n') Level
Cross Section

20-Ca-40
-96.78 To 13.95 %



20

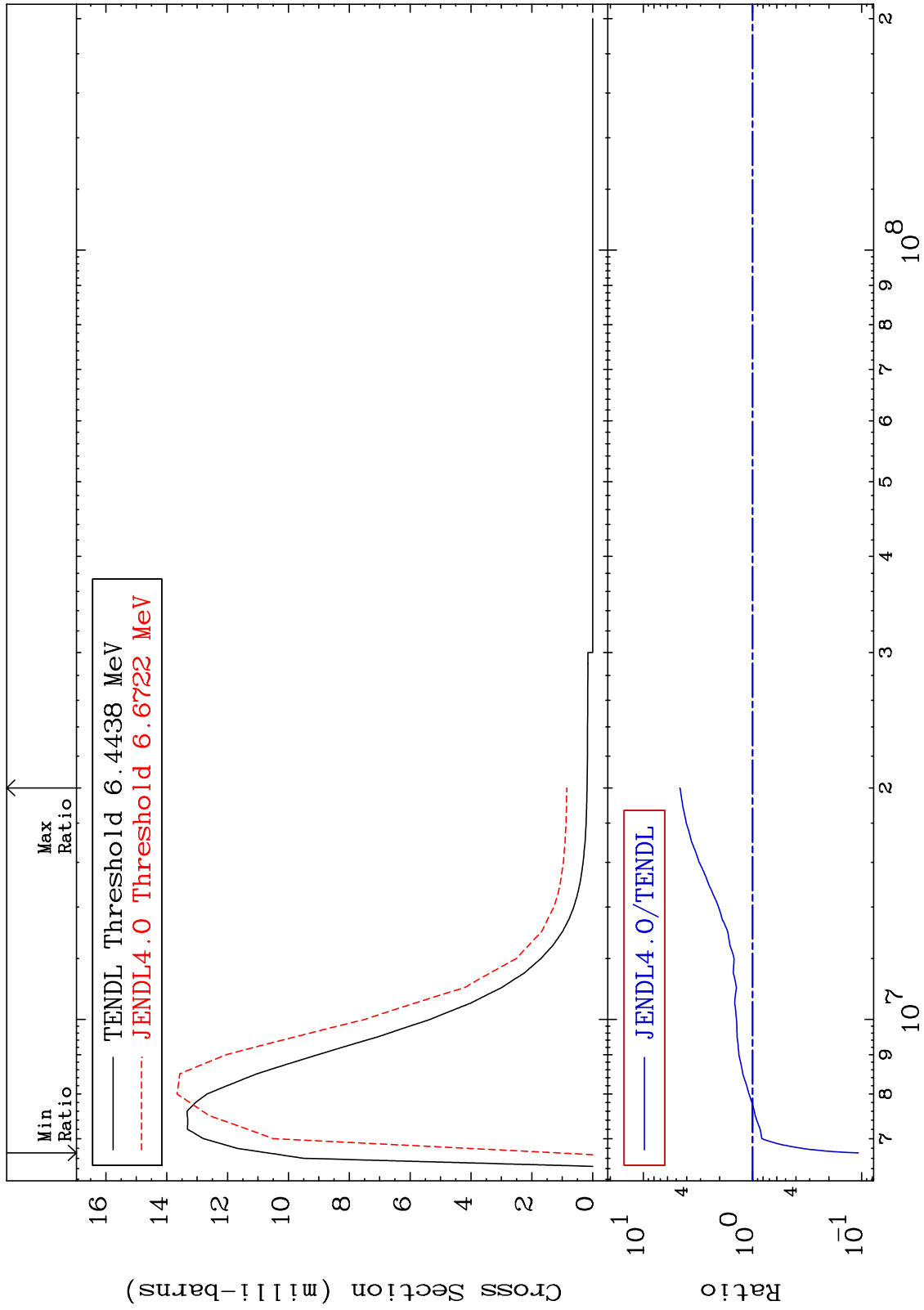
Incident Energy (eV)

20-Ca-40

MAT 2025

MT= 65 (n,n') Level
Cross Section

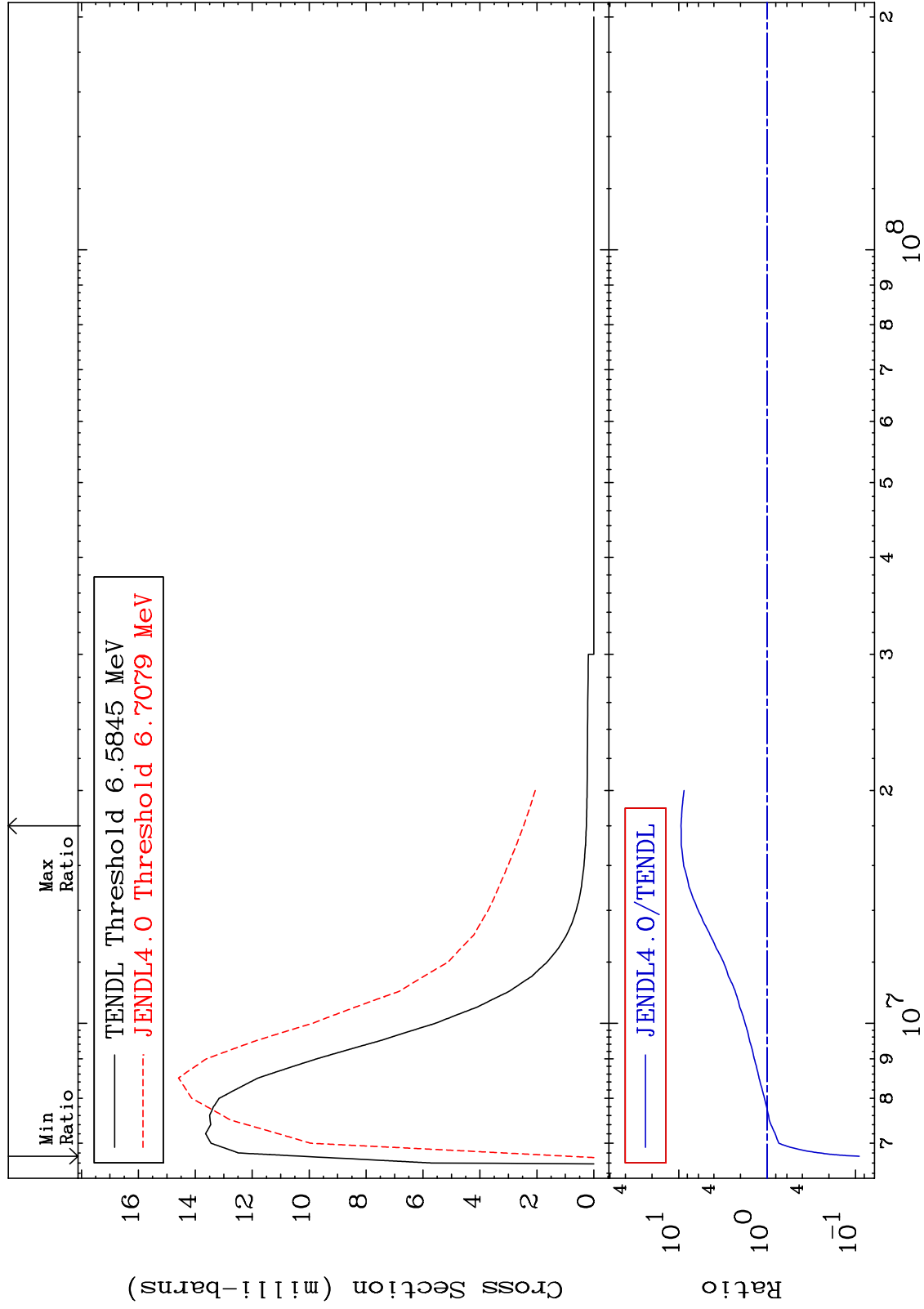
20-Ca-40
-89.27 To 361.5 %



MAT 2025

MT= 66 (n,n') Level
Cross Section

20-Ca-40
-90.91 To 840.9 %



22

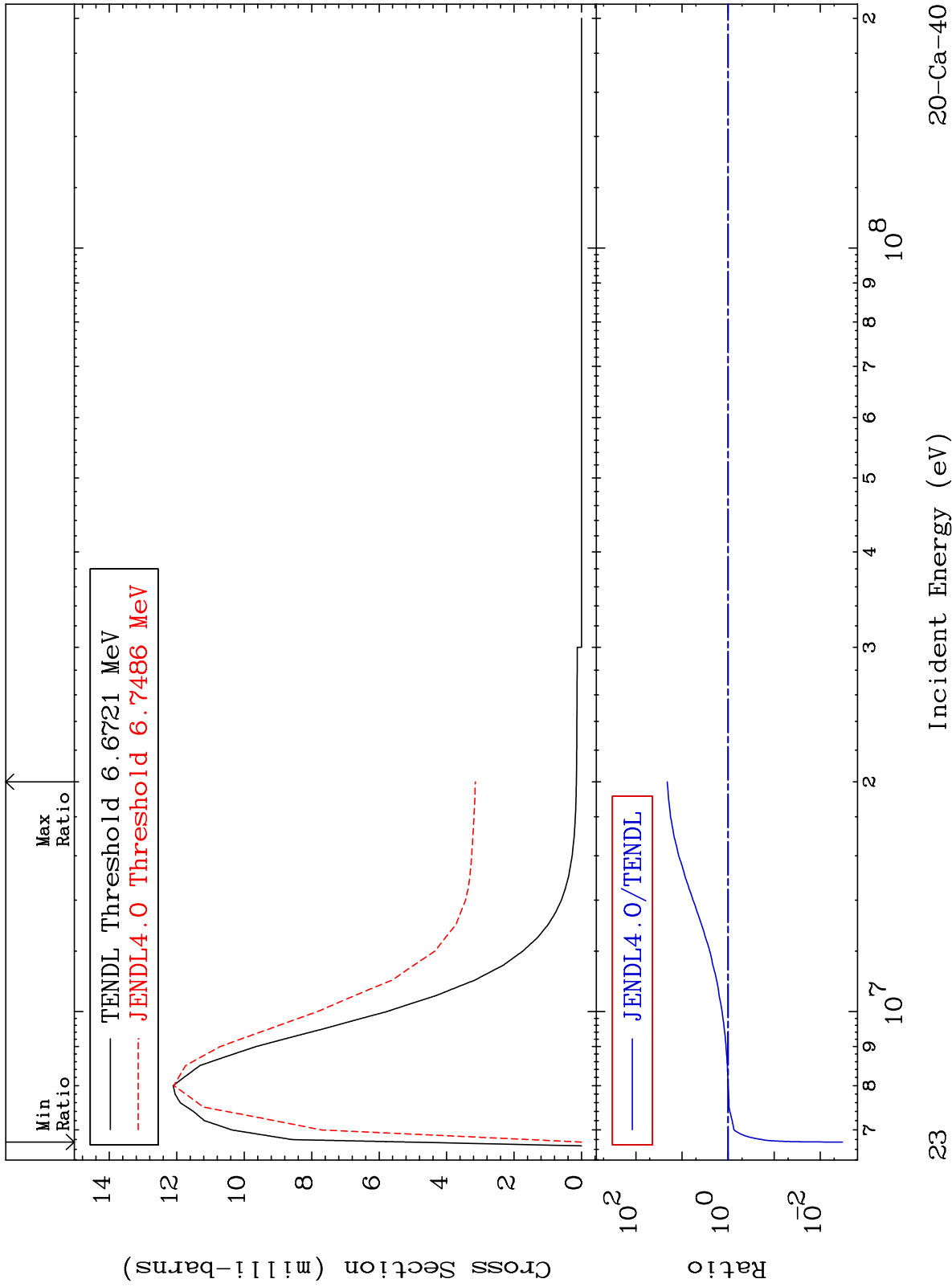
Incident Energy (eV)

20-Ca-40

MAT 2025

MT= 67 (n,n') Level
Cross Section

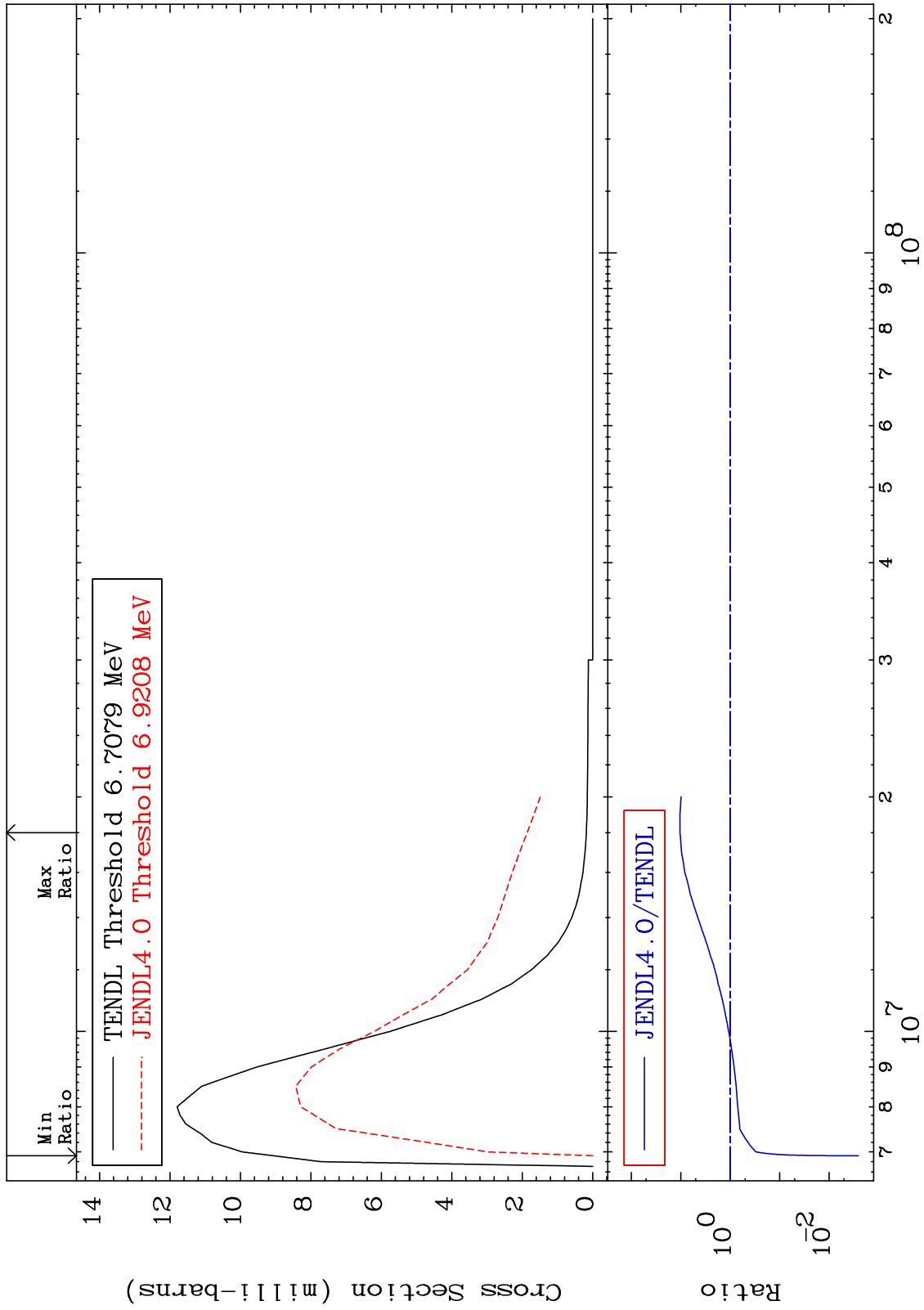
20-Ca-40
-99.67 To 1982. %



MAT 2025

MT= 68 (n,n') Level
Cross Section

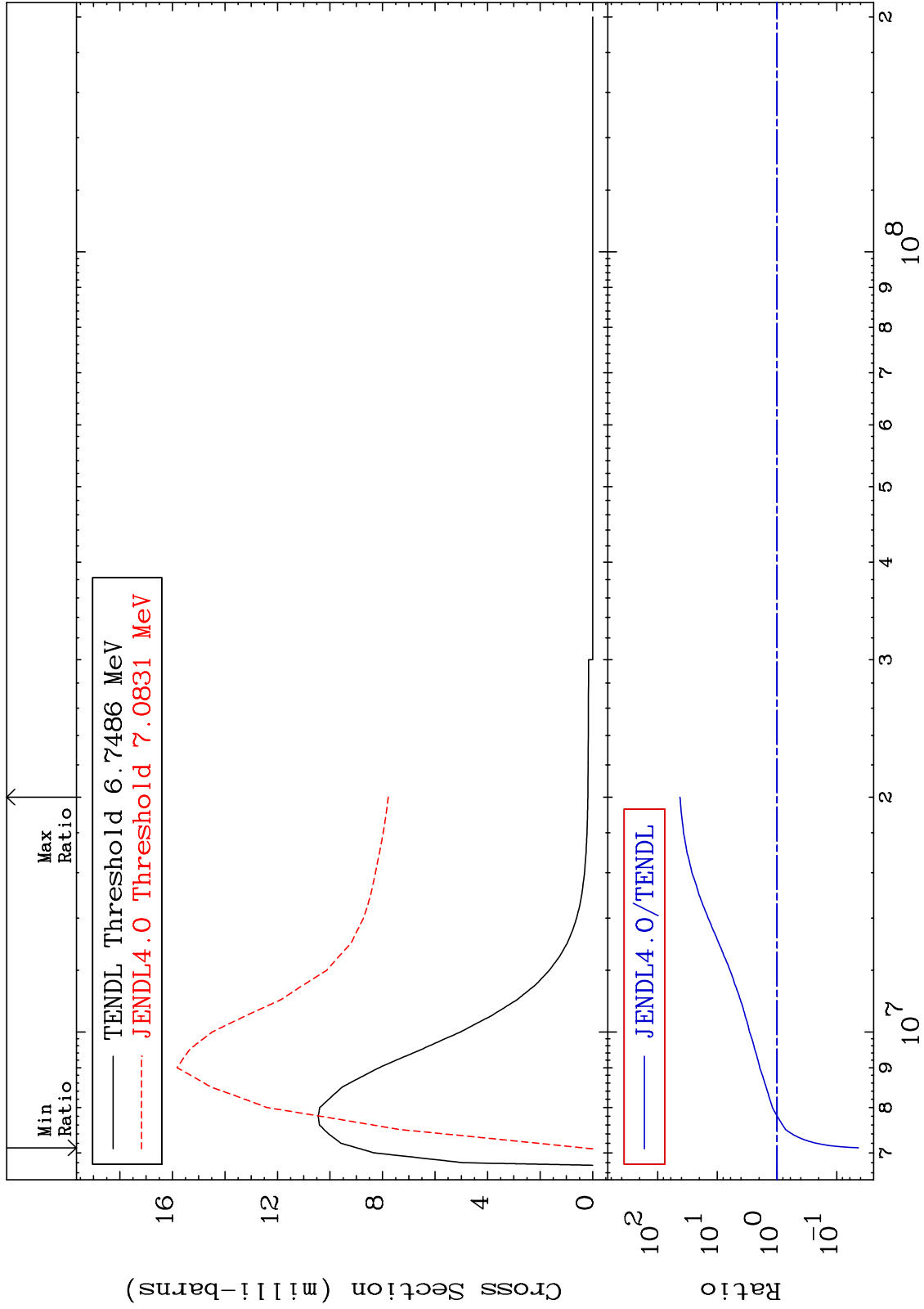
20-Ca-40
-99.74 To 934.6 %



MAT 2025

MT= 69 (n,n') Level
Cross Section

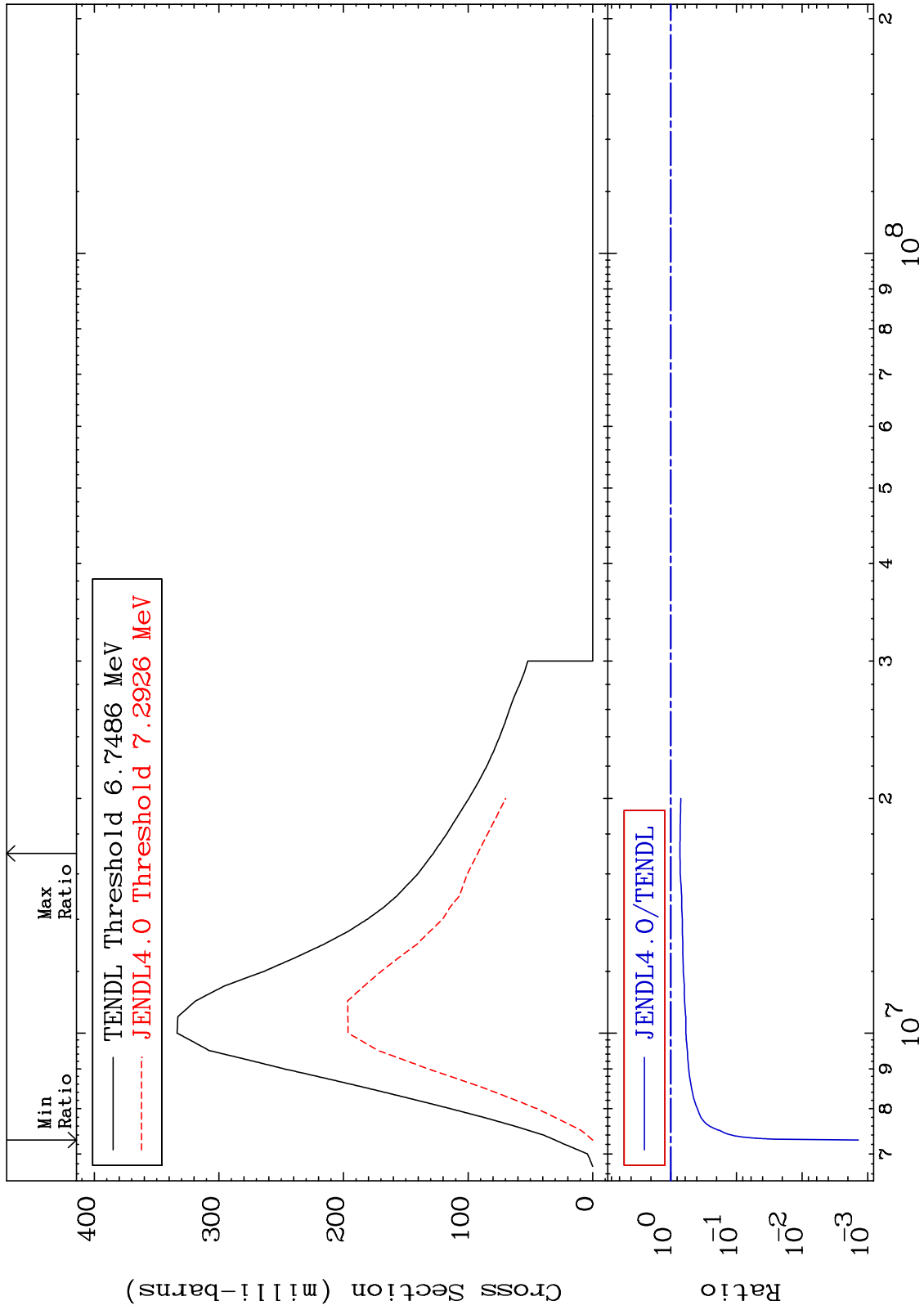
20-Ca-40
-95.67 To 4118. %



MAT 2025

(n,n') Continuum
Cross Section

20-Ca-40
-99.86 To -27.86%



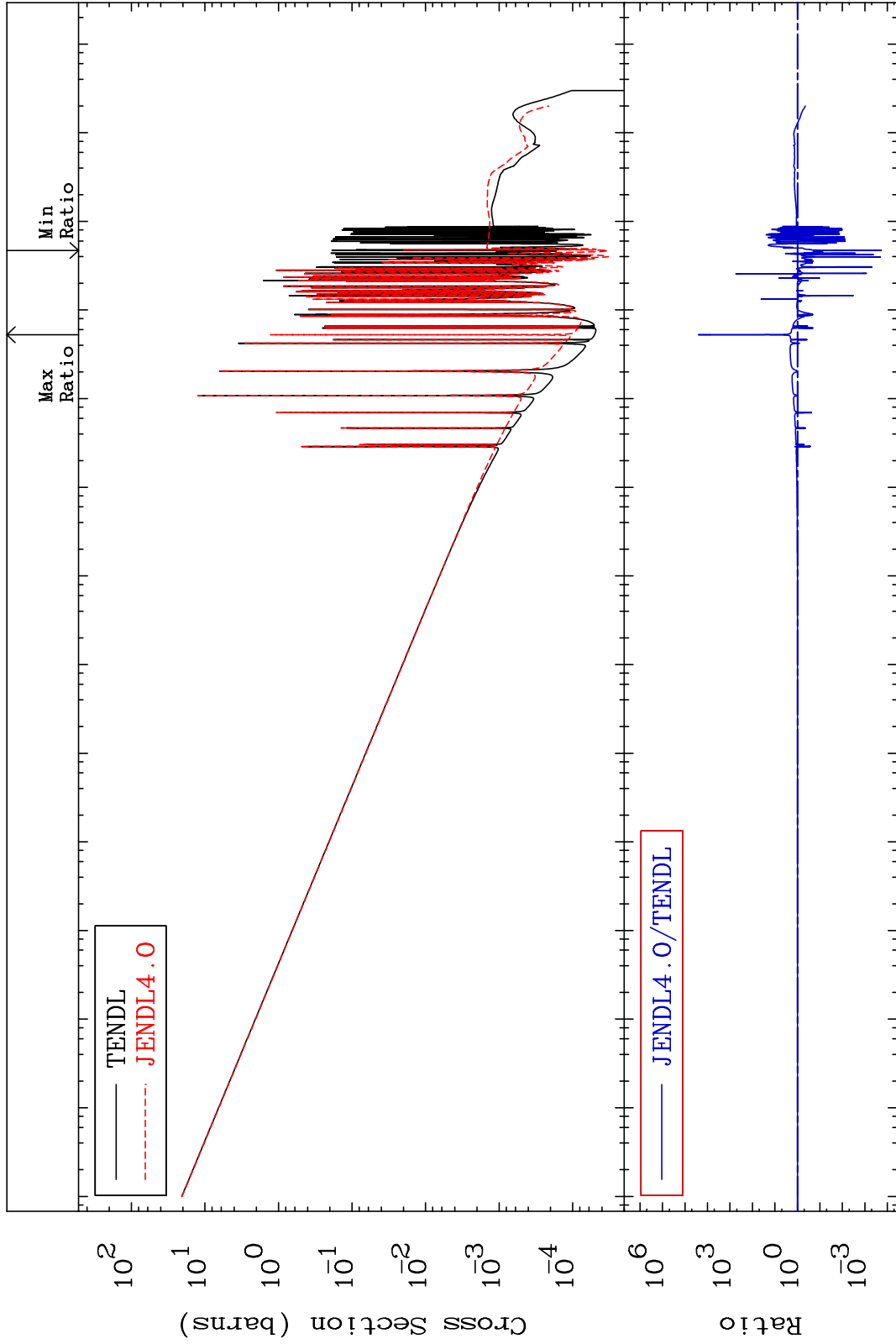
MAT 2025

(n, γ)

20-Ca-40

Cross Section

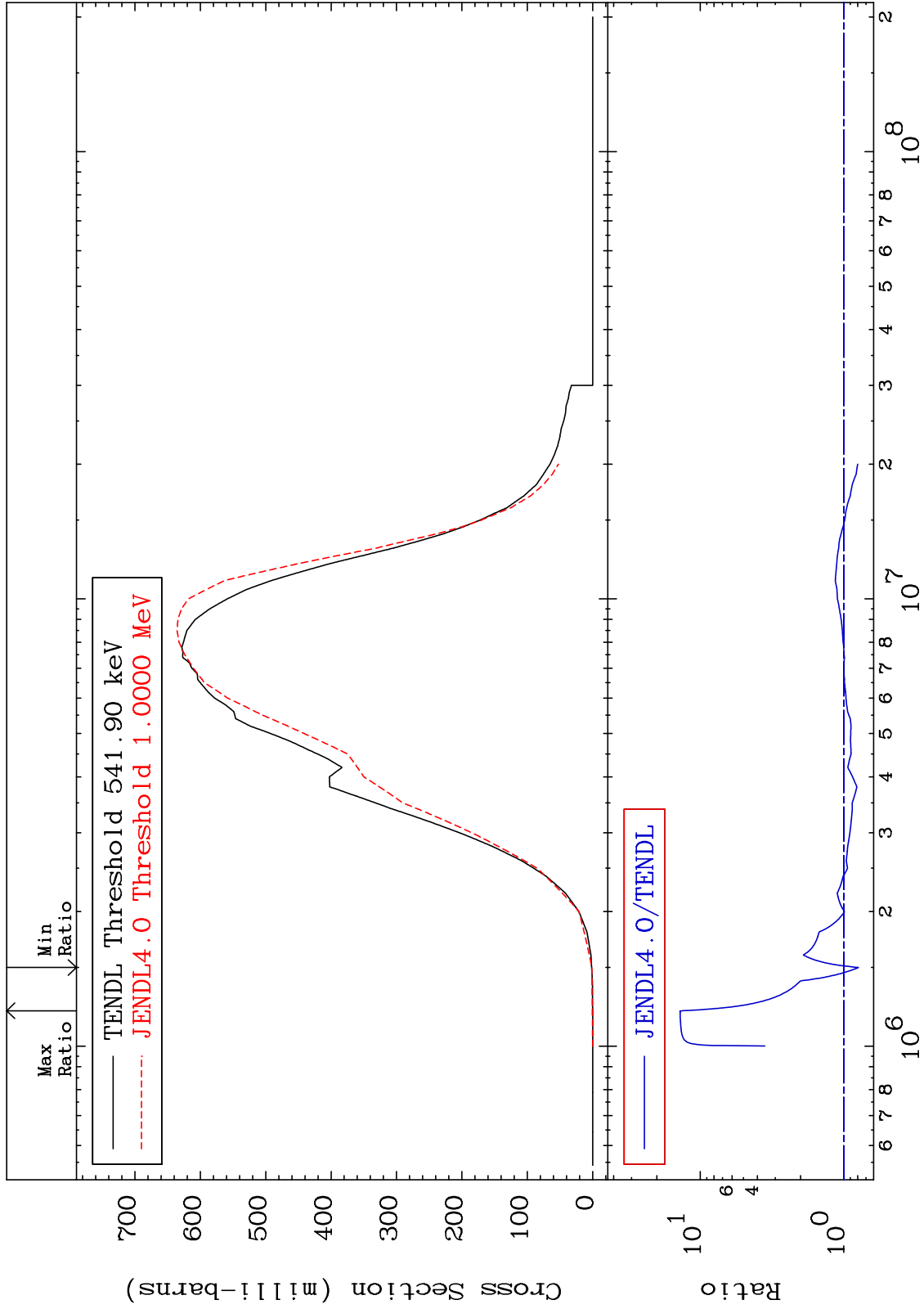
-99.98 To 9999. %



Incident Energy (eV) 20-Ca-40

Cross Section

-20.85 To 1281. %



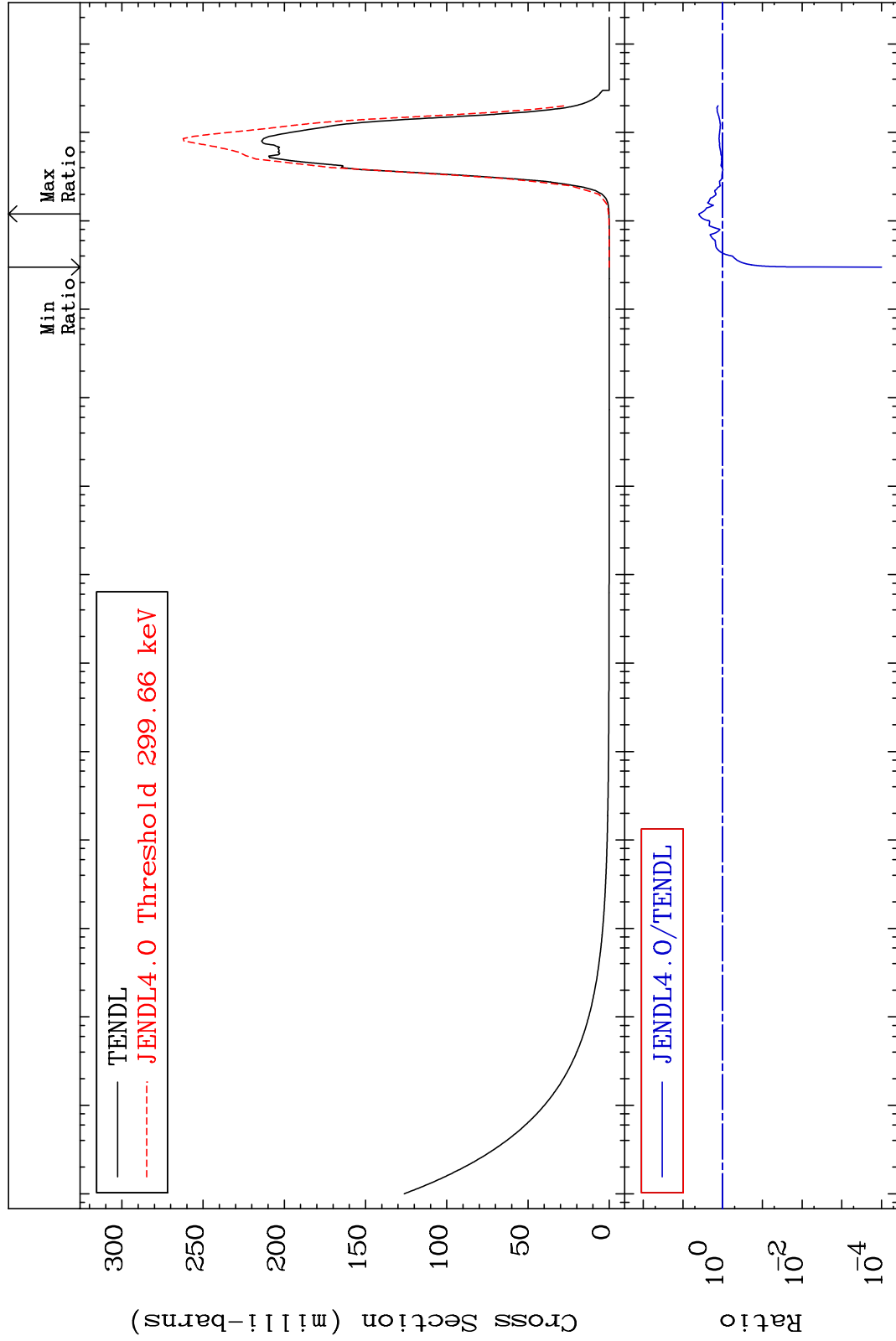
MAT 2025

(n, α)

20-Ca-40

Cross Section

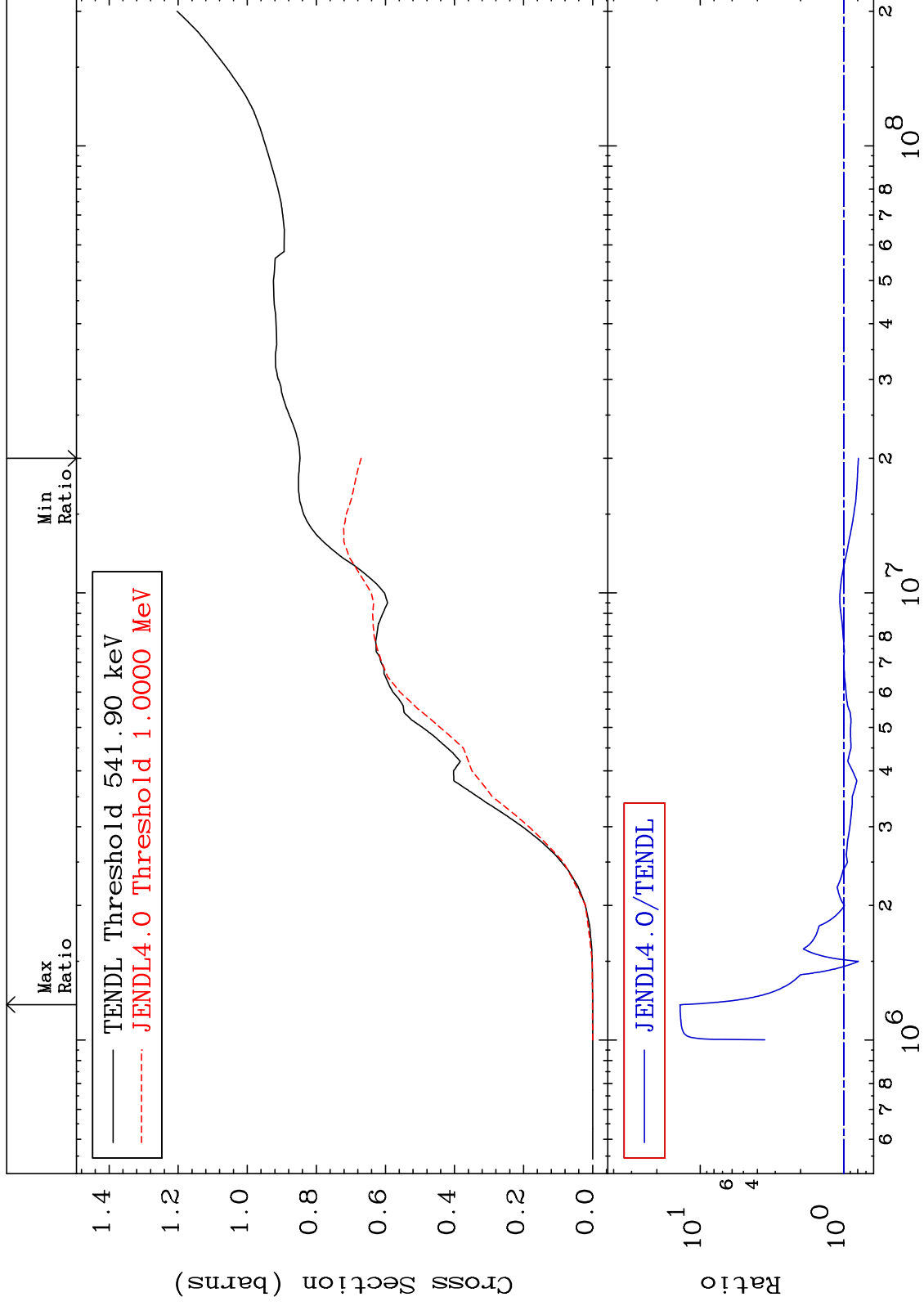
-99.99 To 301.4 %



MAT 2025

Hydrogen Production
Cross Section

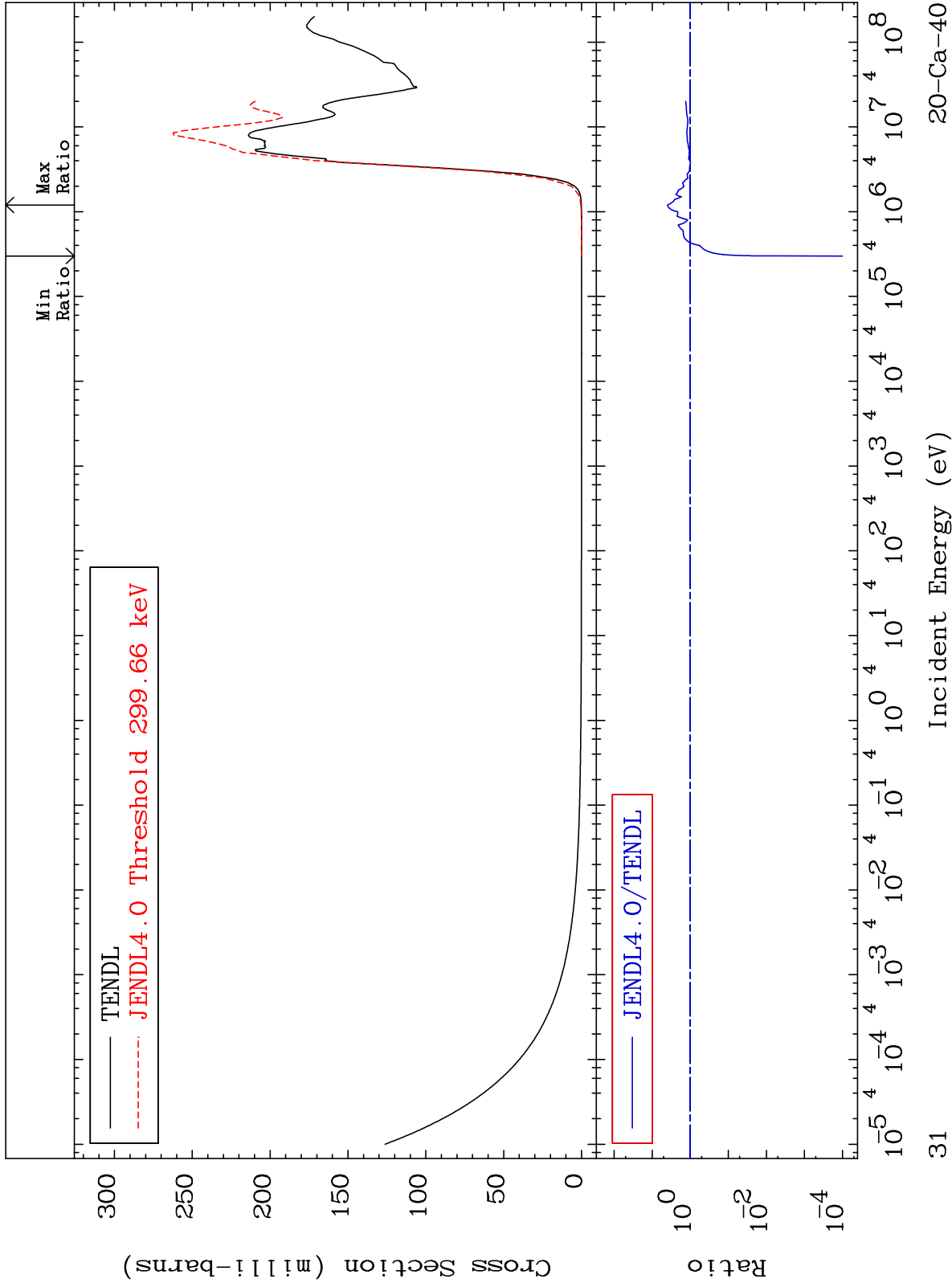
20-Ca-40
-20.90 To 1281. %



MAT 2025

He-4 Production
Cross Section

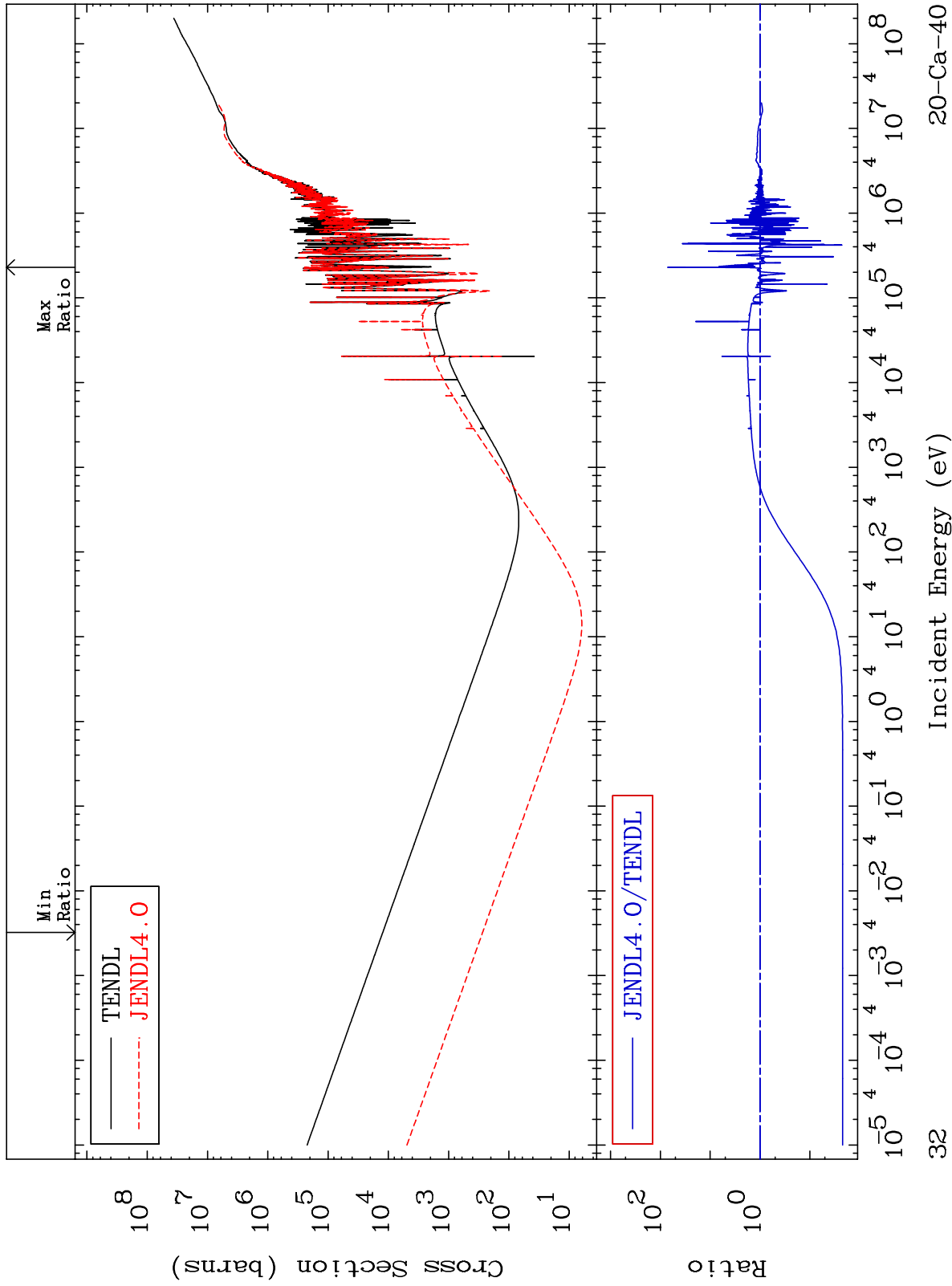
20-Ca-40
-99.99 To 301.4 %



MAT 2025

Kerma total (eV-barns)
Cross Section

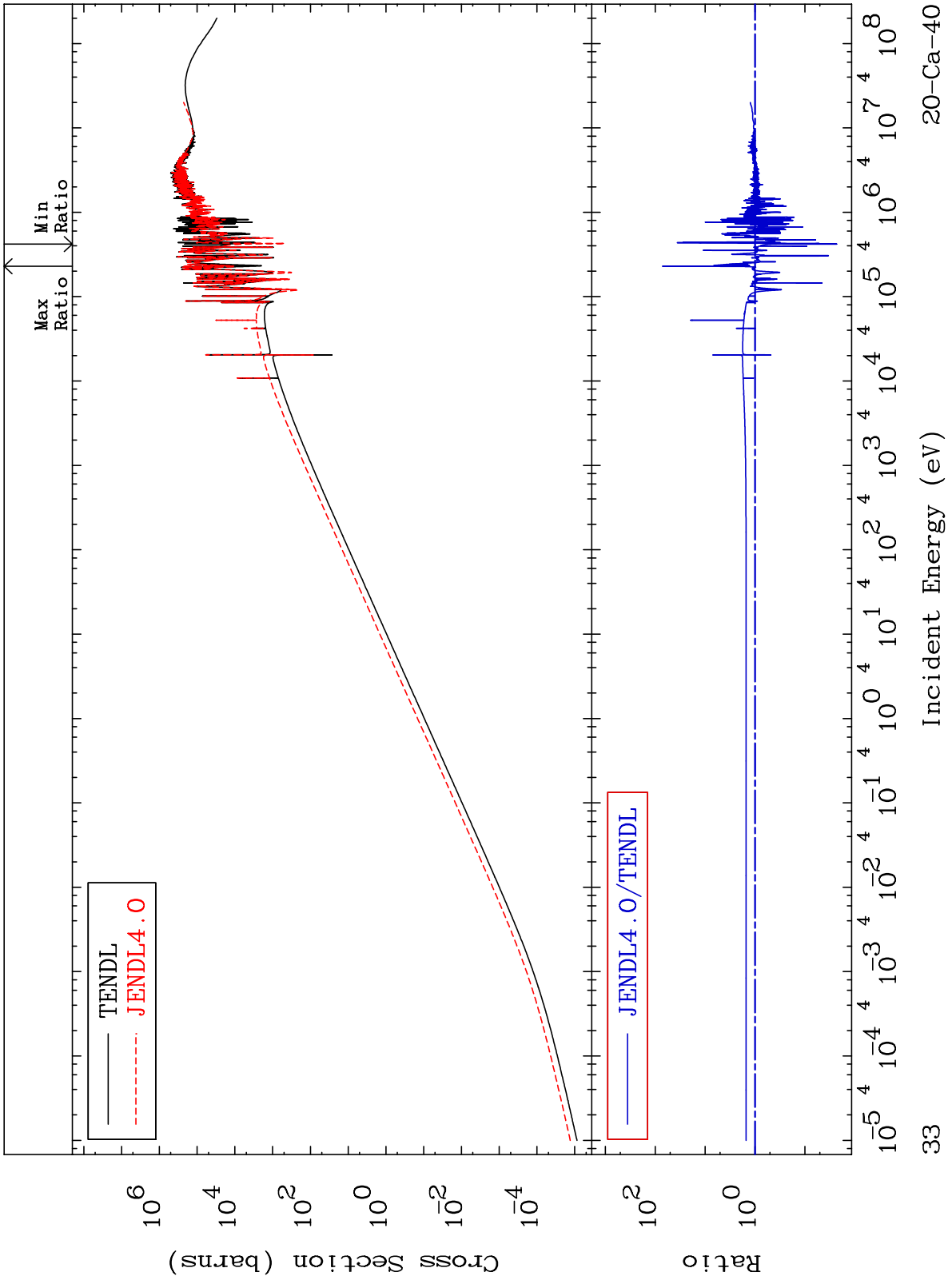
20-Ca-40
-97.79 To 7065. %



MAT 2025

Kerma elastic
Cross Section

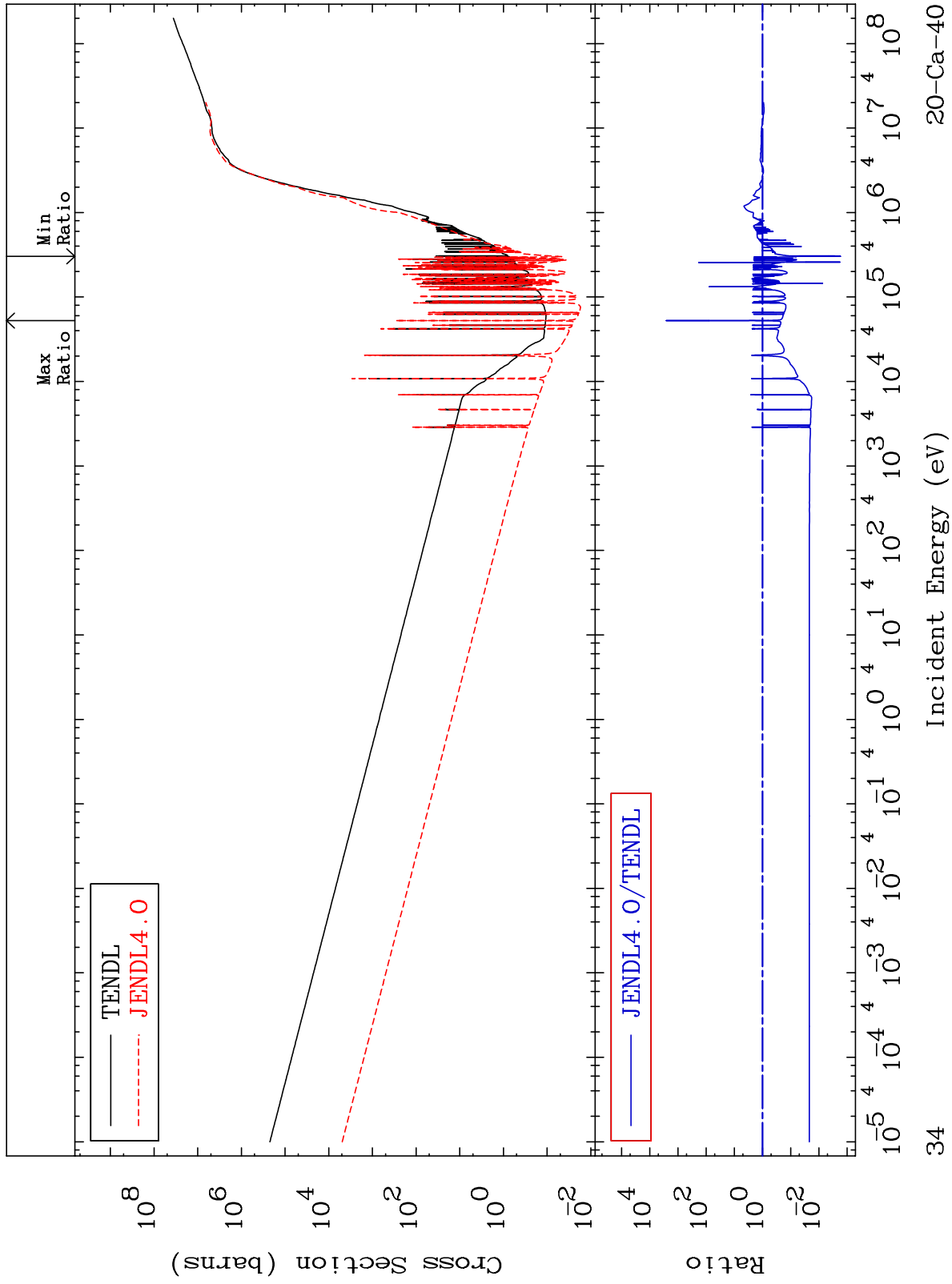
20-Ca-40
-97.71 To 7074. %



MAT 2025

Kerma non-elastic (all but mt2)
Cross Section

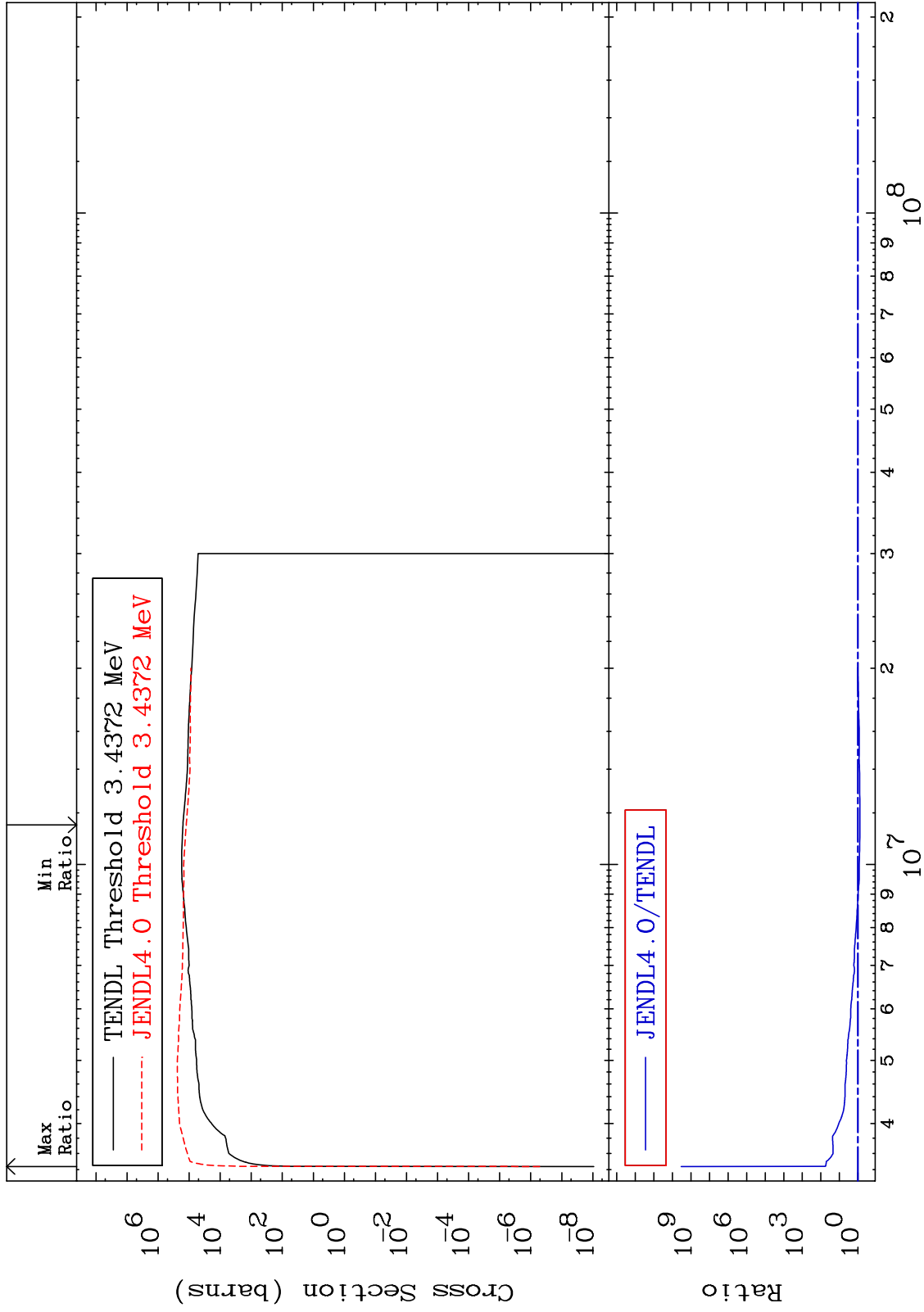
20-Ca-40
-99.83 To 9999. %



MAT 2025

Kerma inelastic (mt51-91)
Cross Section

20-Ca-40
-21.65 To 9999. %

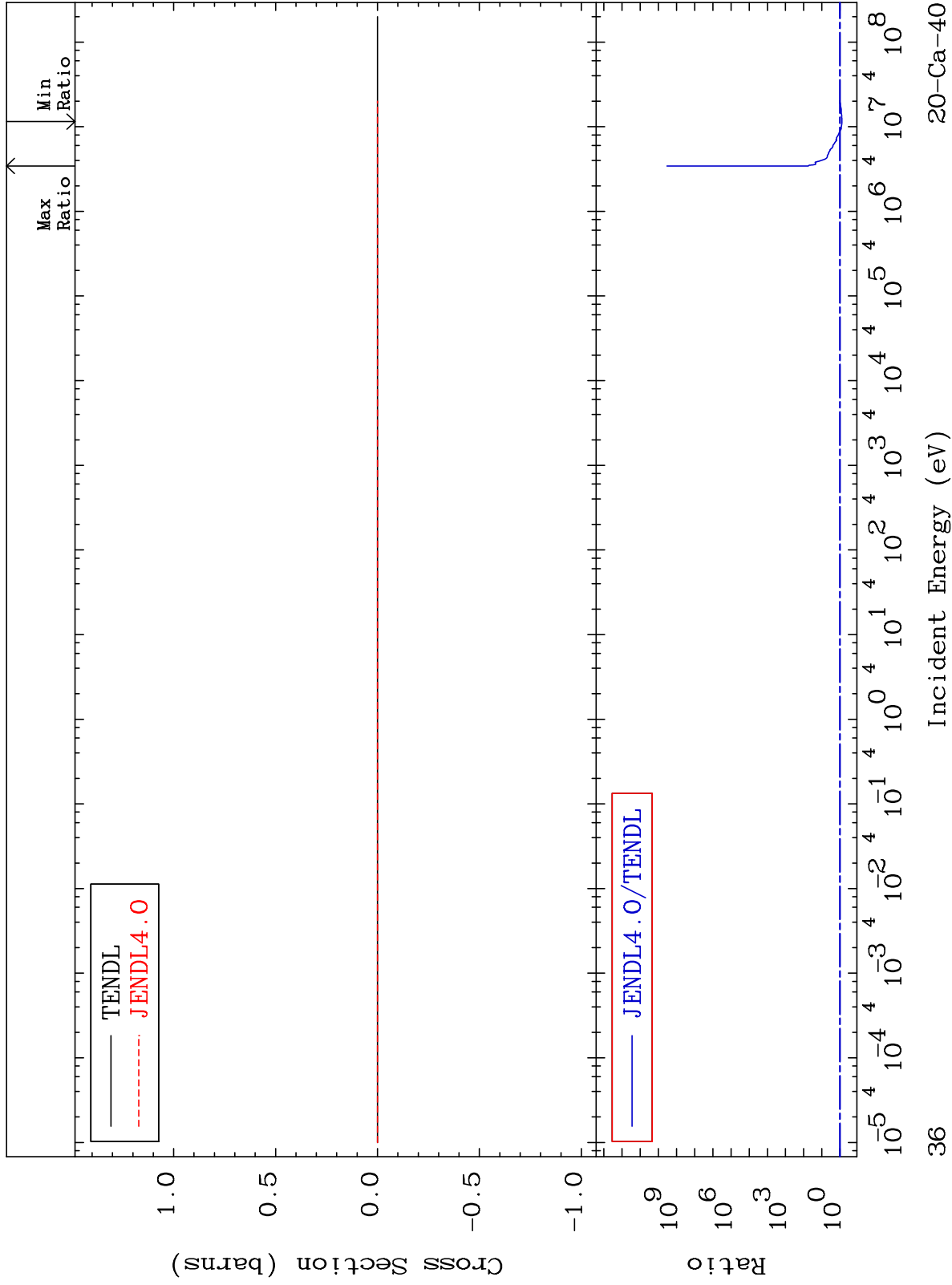


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MAT 2025

Kerma fission (mt18 or mt19-20-21-38)
Cross Section

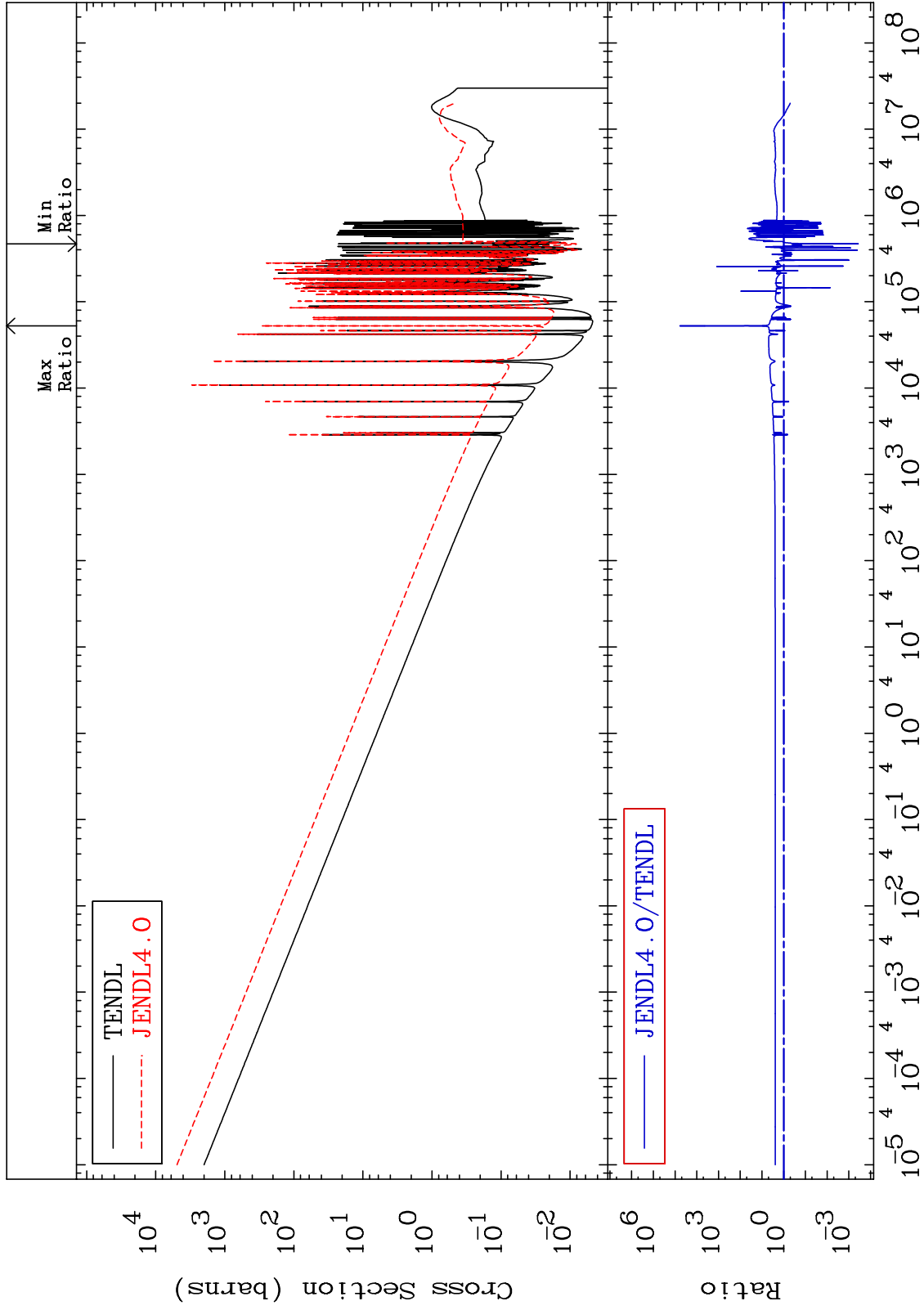
20-Ca-40
-21.65 To 9999. %



MAT 2025

Kerma capture (mt102)
Cross Section

20-Ca-40
-99.96 To 9999. %



37

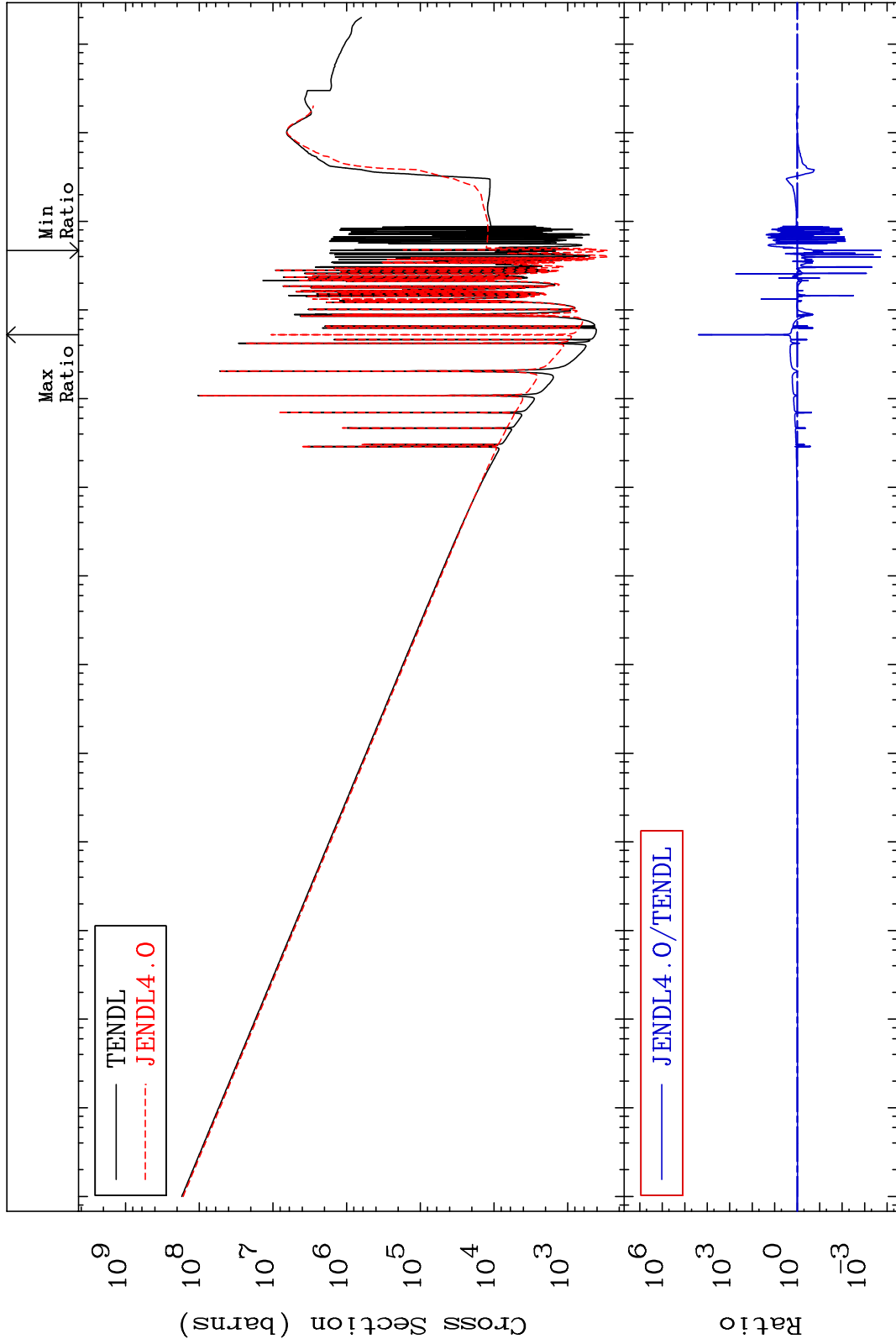
Incident Energy (eV)

20-Ca-40

MAT 2025

Total photon (eV-barns)
Cross Section

20-Ca-40
-99.98 To 9999. %



38

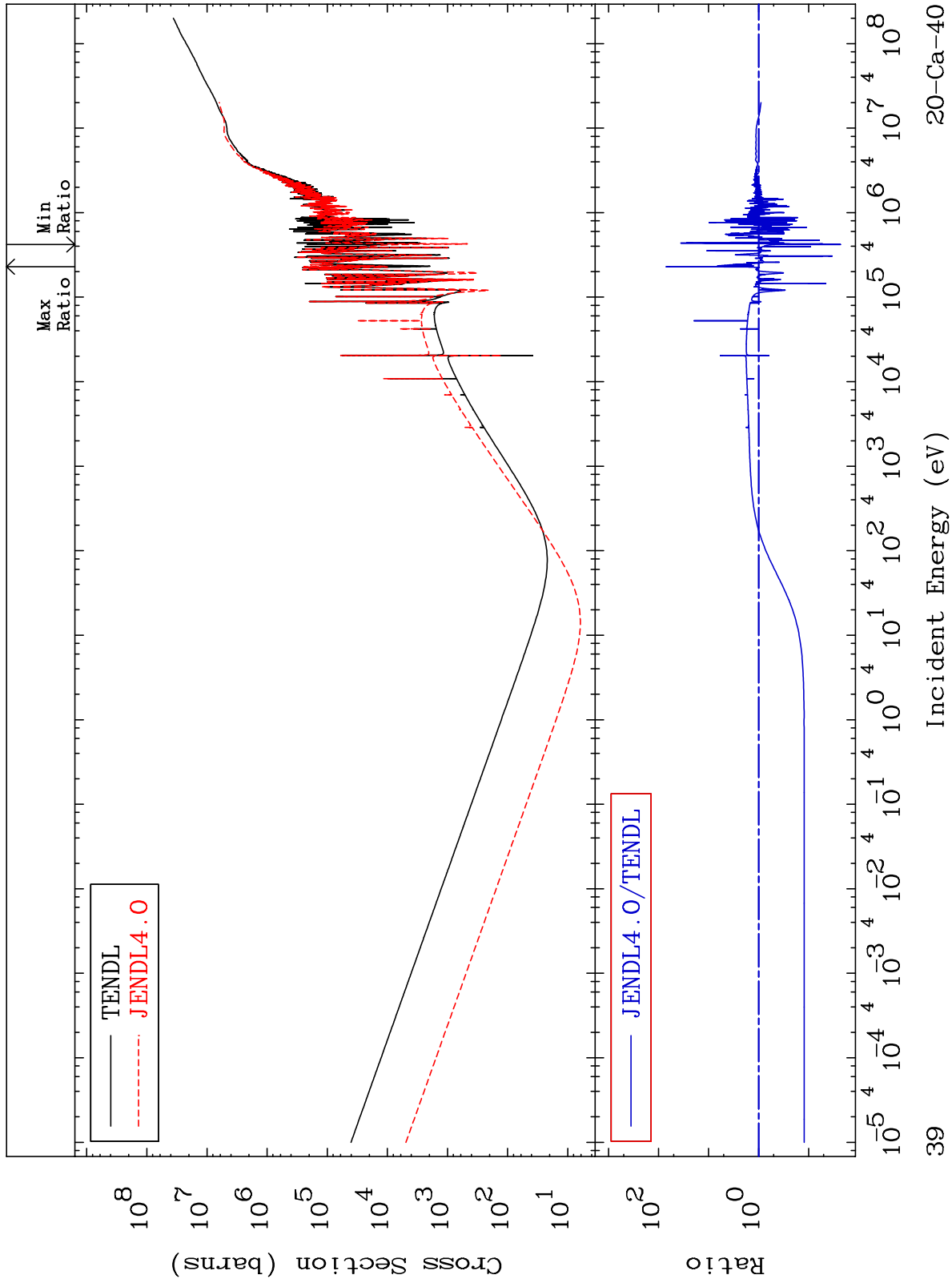
Incident Energy (eV)

20-Ca-40

MAT 2025

Total kinematic kerma (high limit)
Cross Section

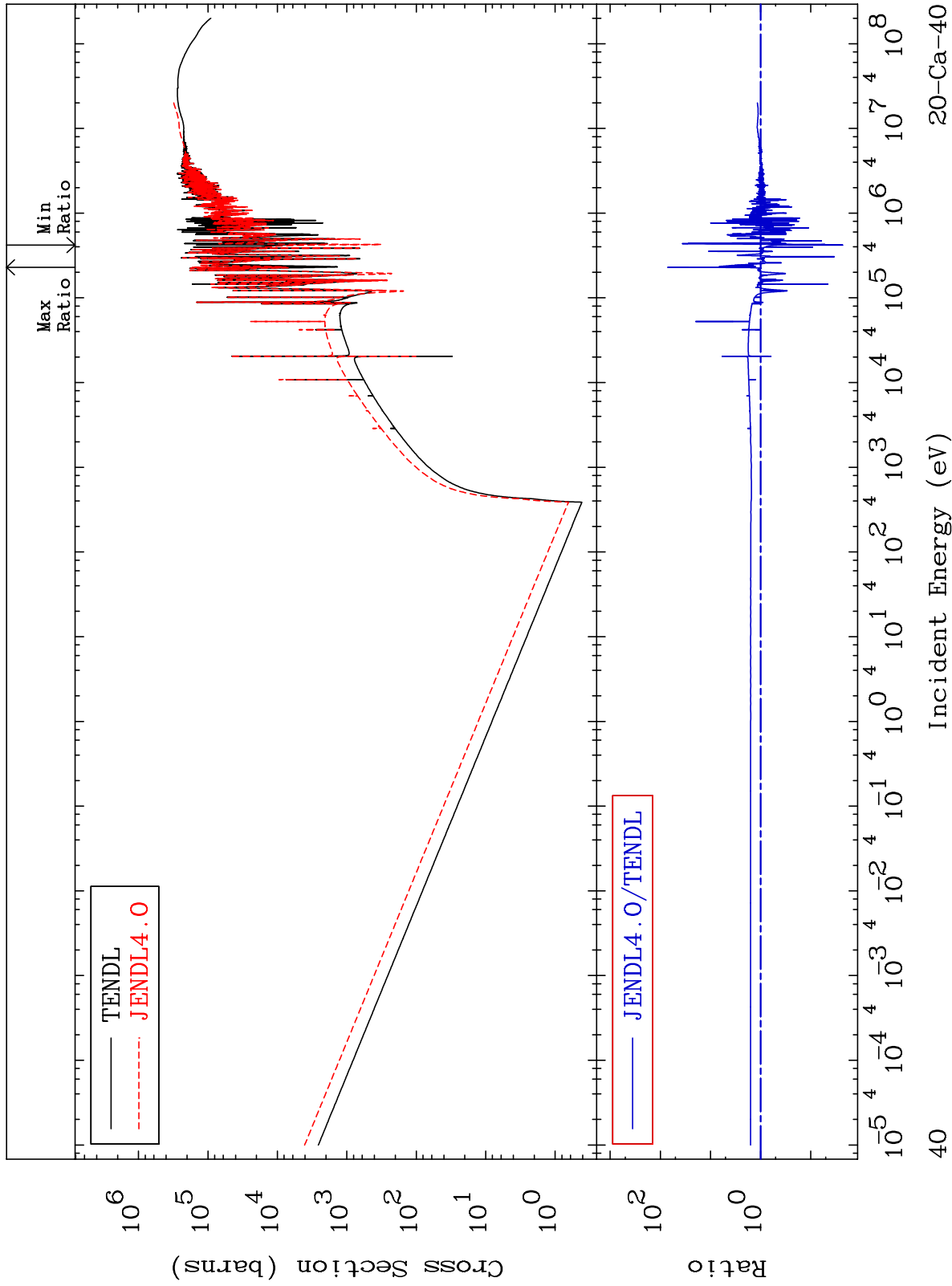
20-Ca-40
-97.71 To 7065. %



MAT 2025

Dpa total (eV-barns)
Cross Section

20-Ca-40
-97.70 To 7072. %

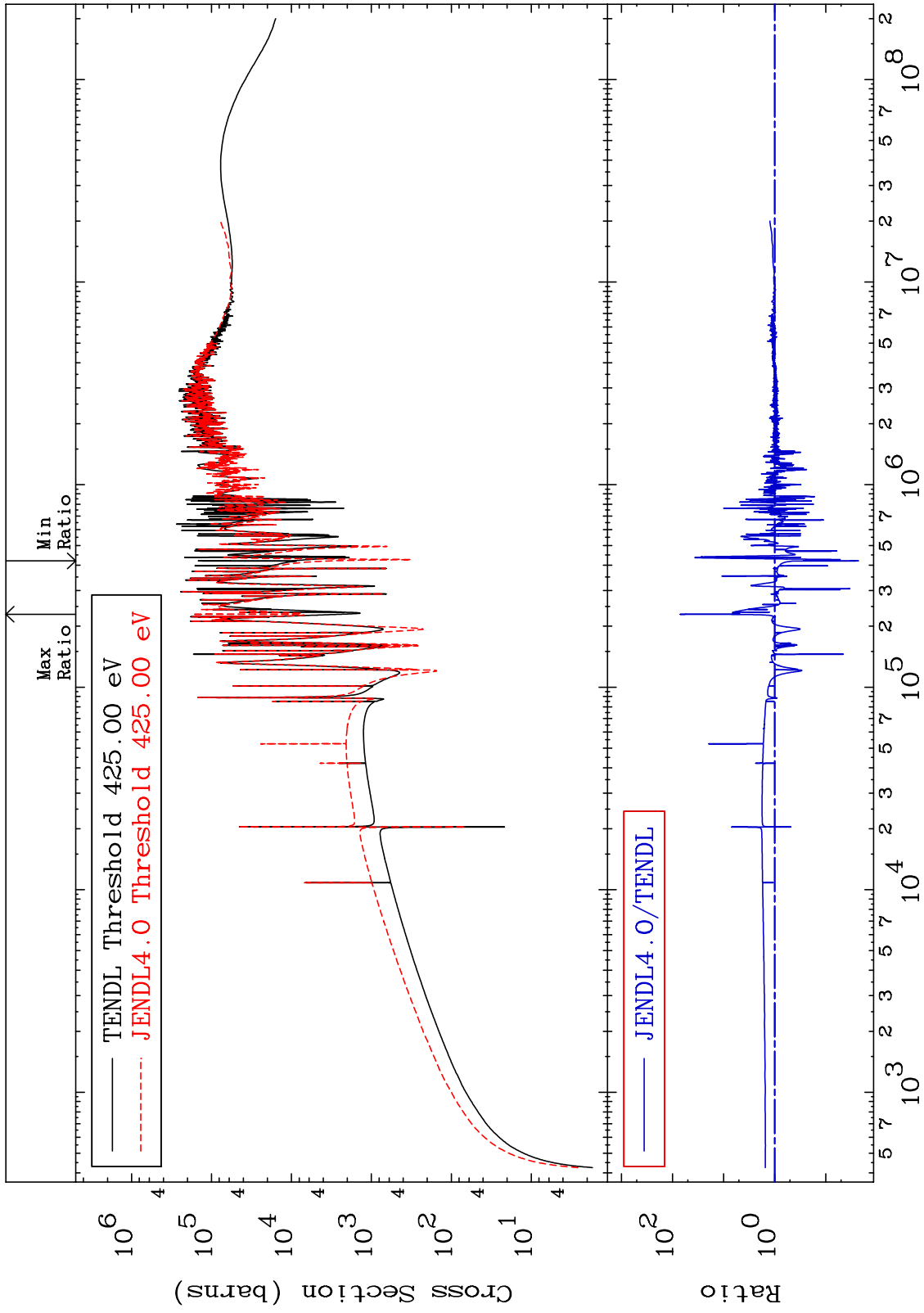


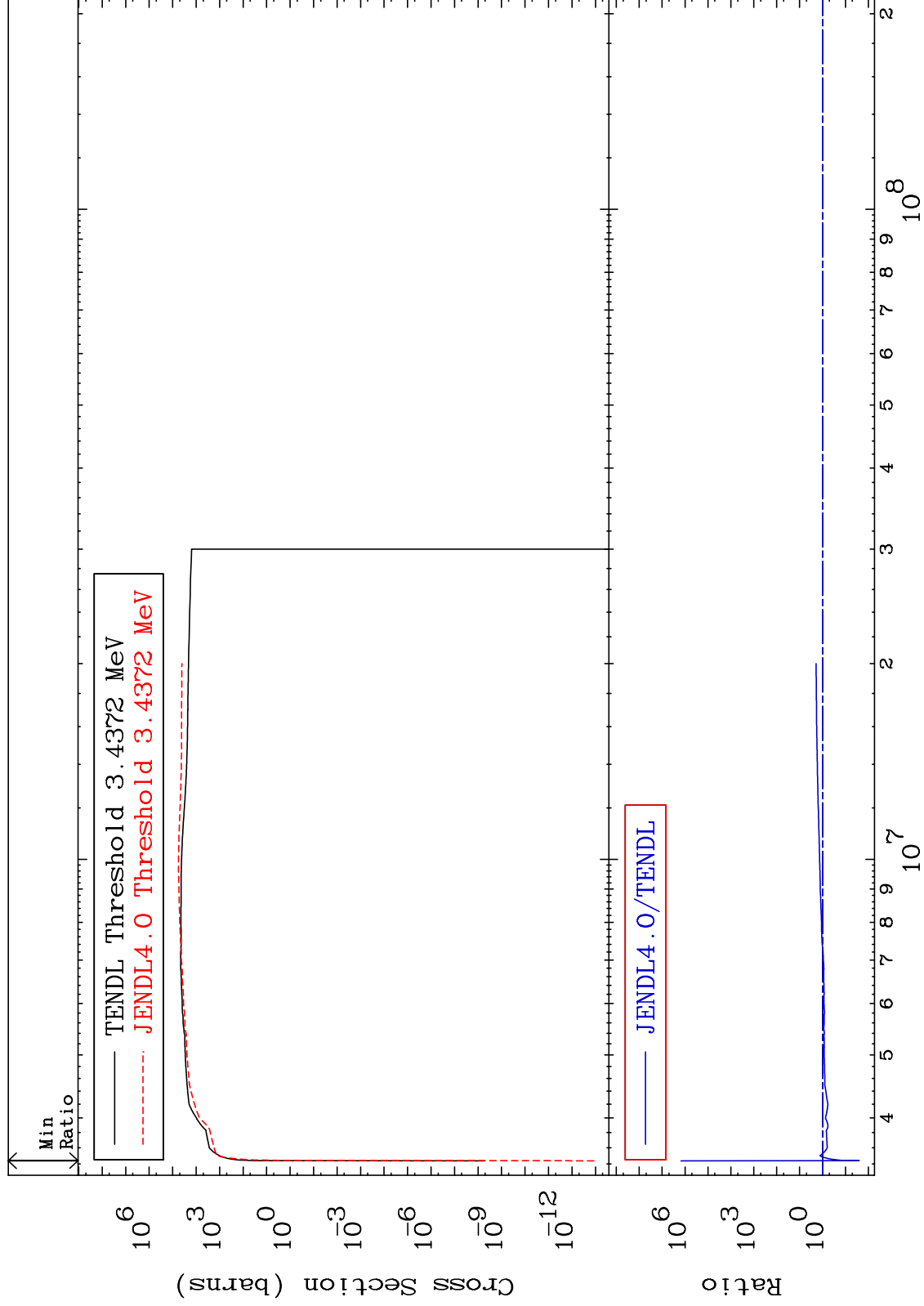
MAT 2025

Dpa elastic (mt2)
Cross Section

20-Ca-40

-97.70 To 7082. %

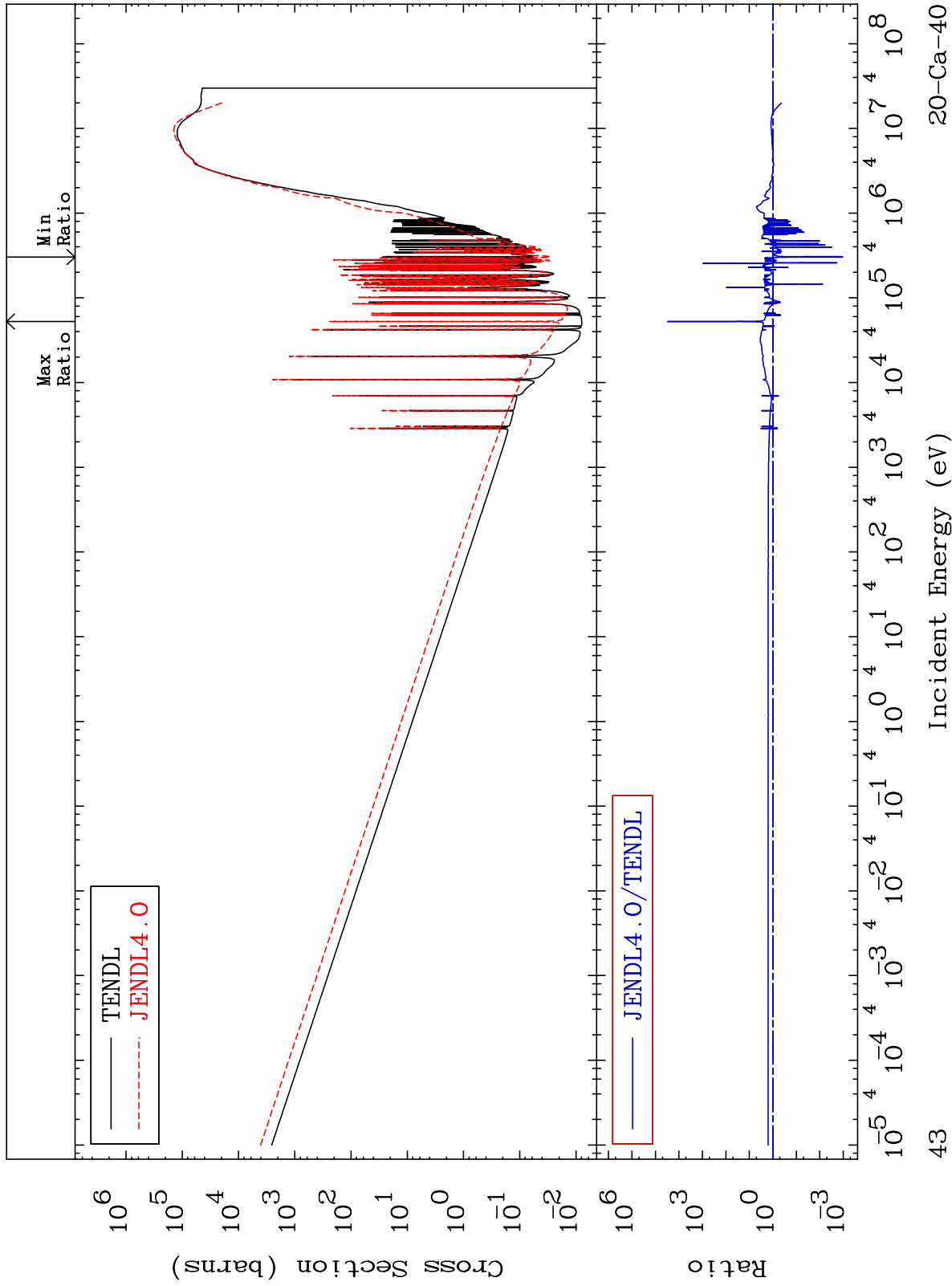




MAT 2025

Dpa disappearance (mt102 -120)
Cross Section

20-Ca-40
-99.89 To 9999. %



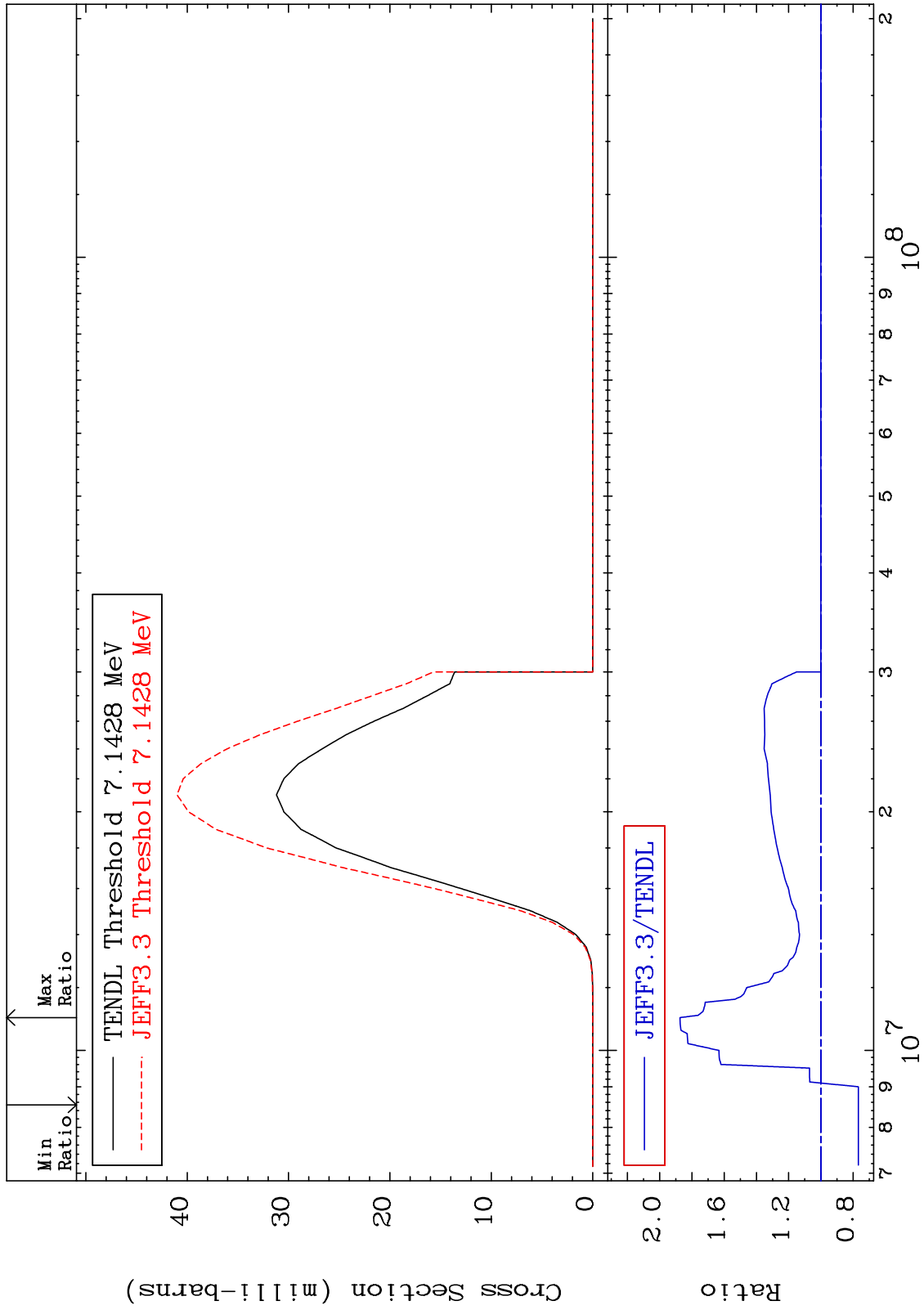
MAT 2025

(n,p) α

20-Ca-40

Cross Section

-23.25 To 87.37 %



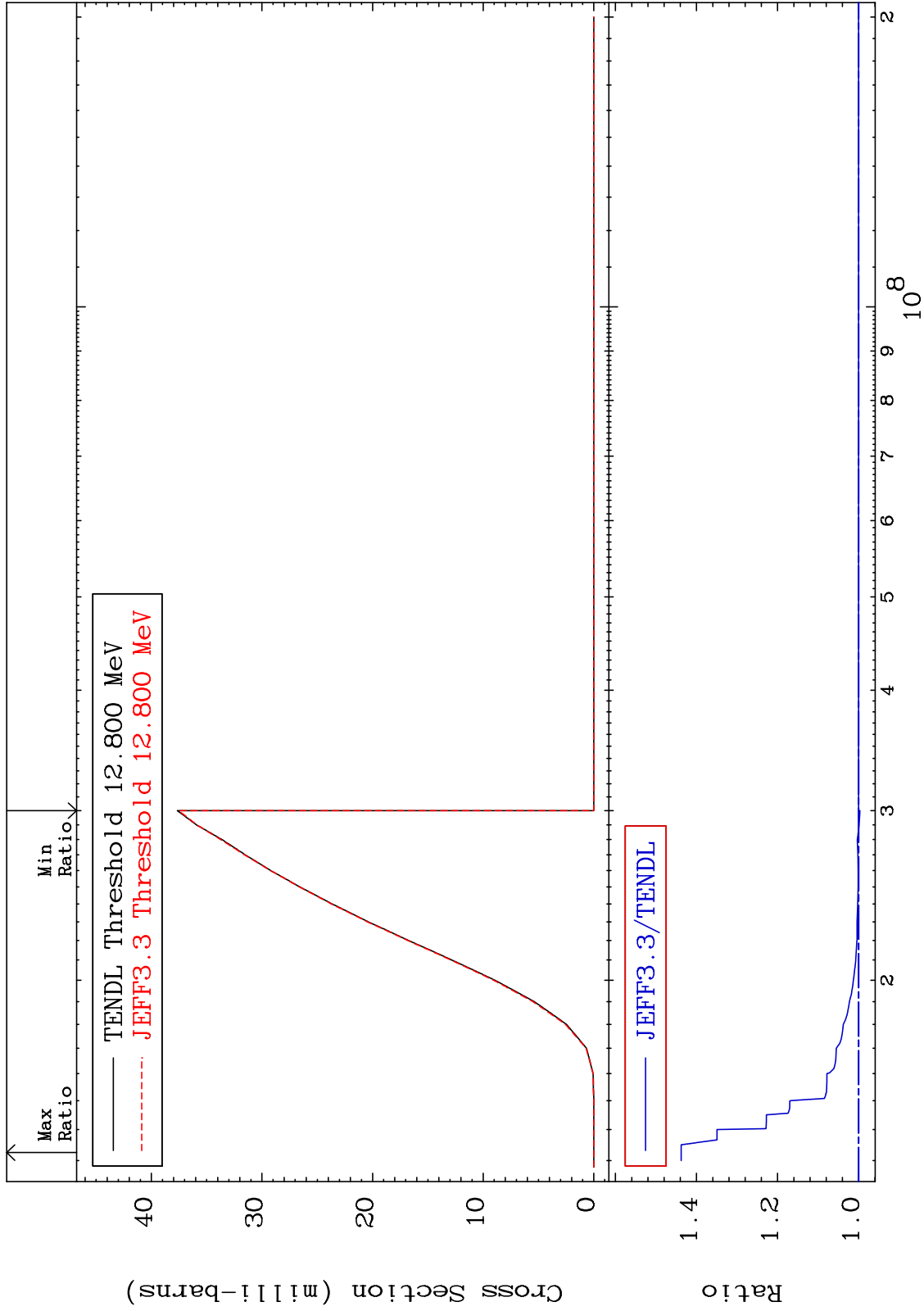
MAT 2025

(n,p) d

20-Ca-40

Cross Section

-0.309 To 43.78 %



45

Incident Energy (eV)

20-Ca-40

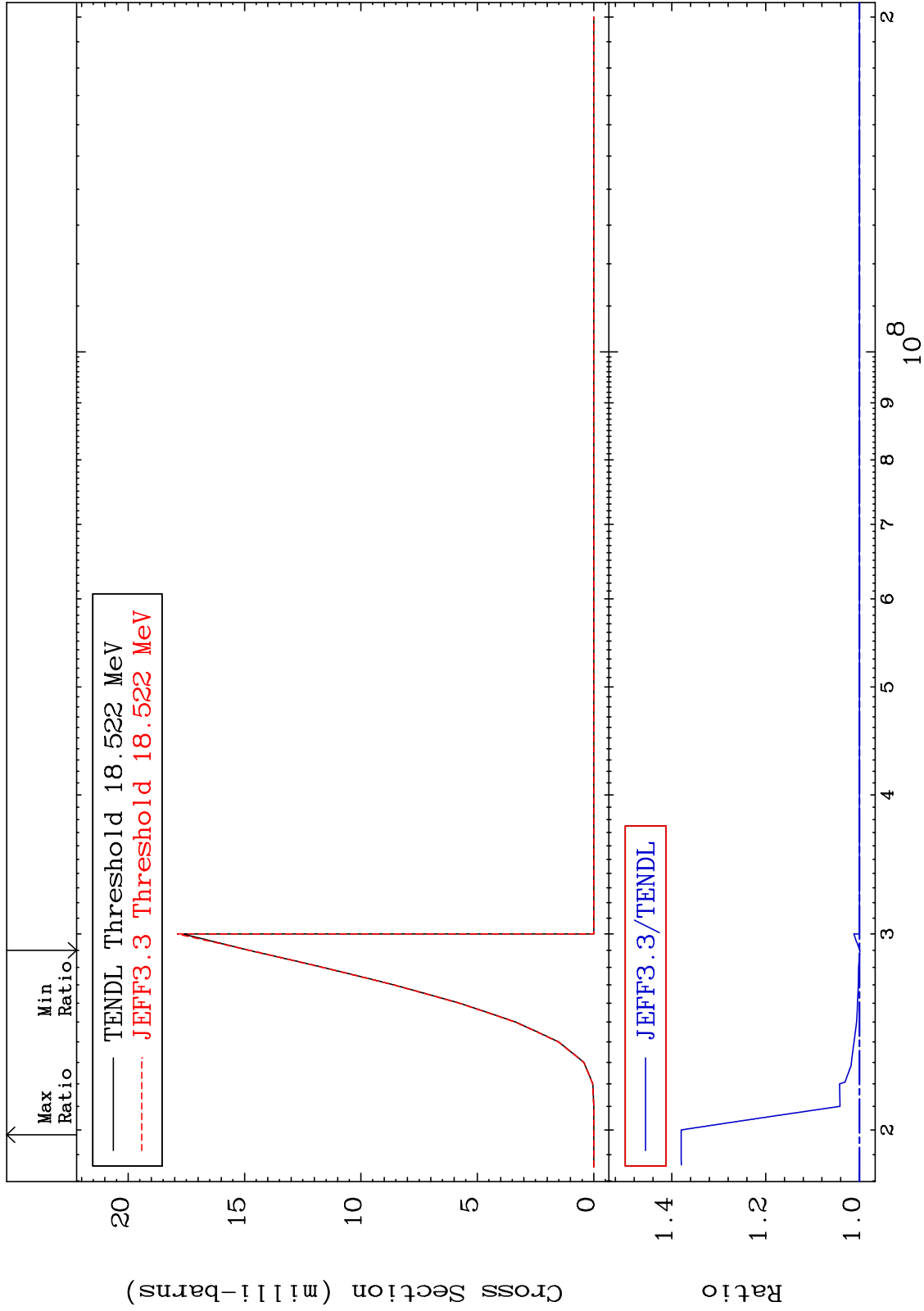
MAT 2025

(n,p) t

20-Ca-40

Cross Section

-0.084 To 37.97 %



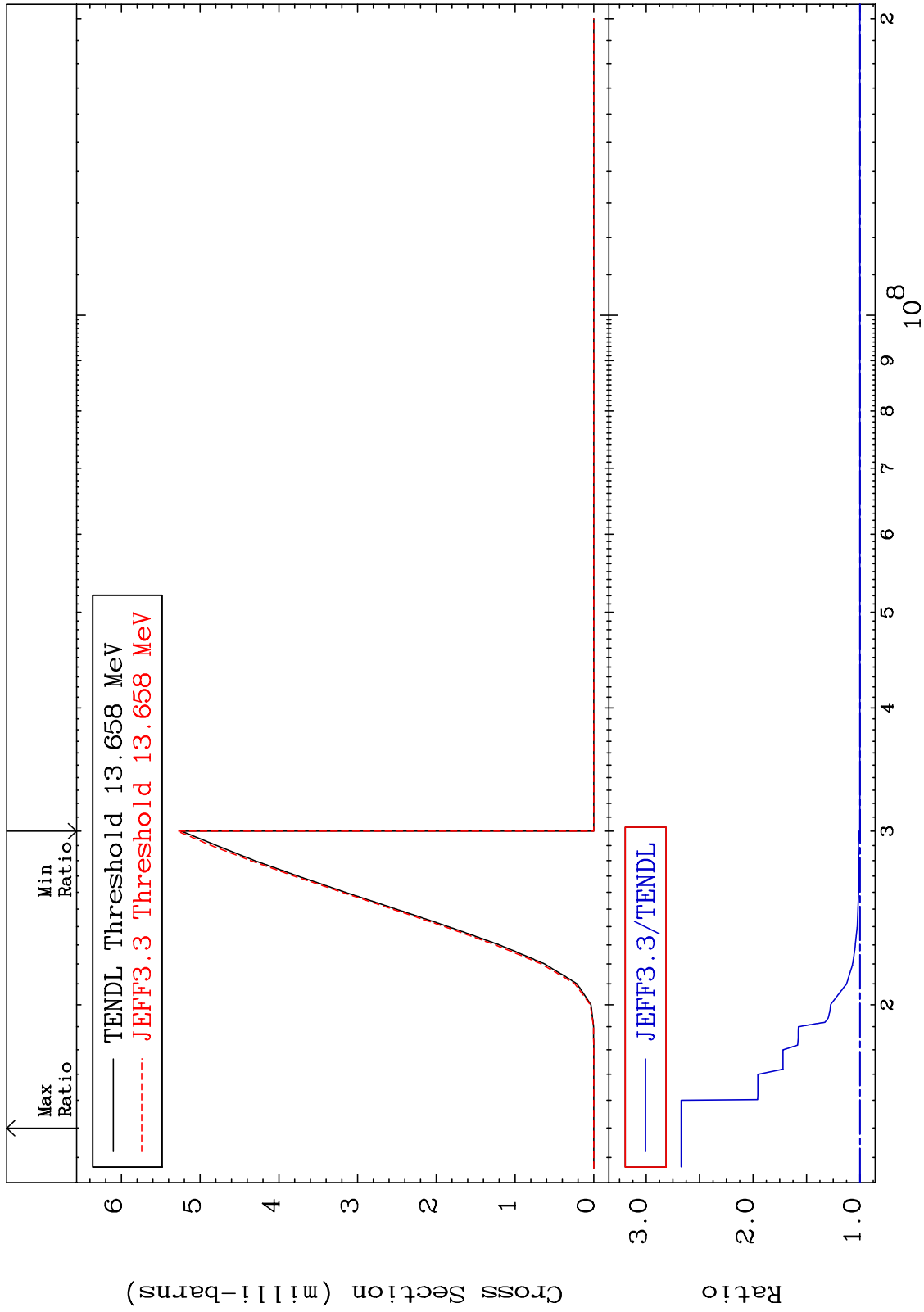
MAT 2025

(n,d) α

20-Ca-40

Cross Section

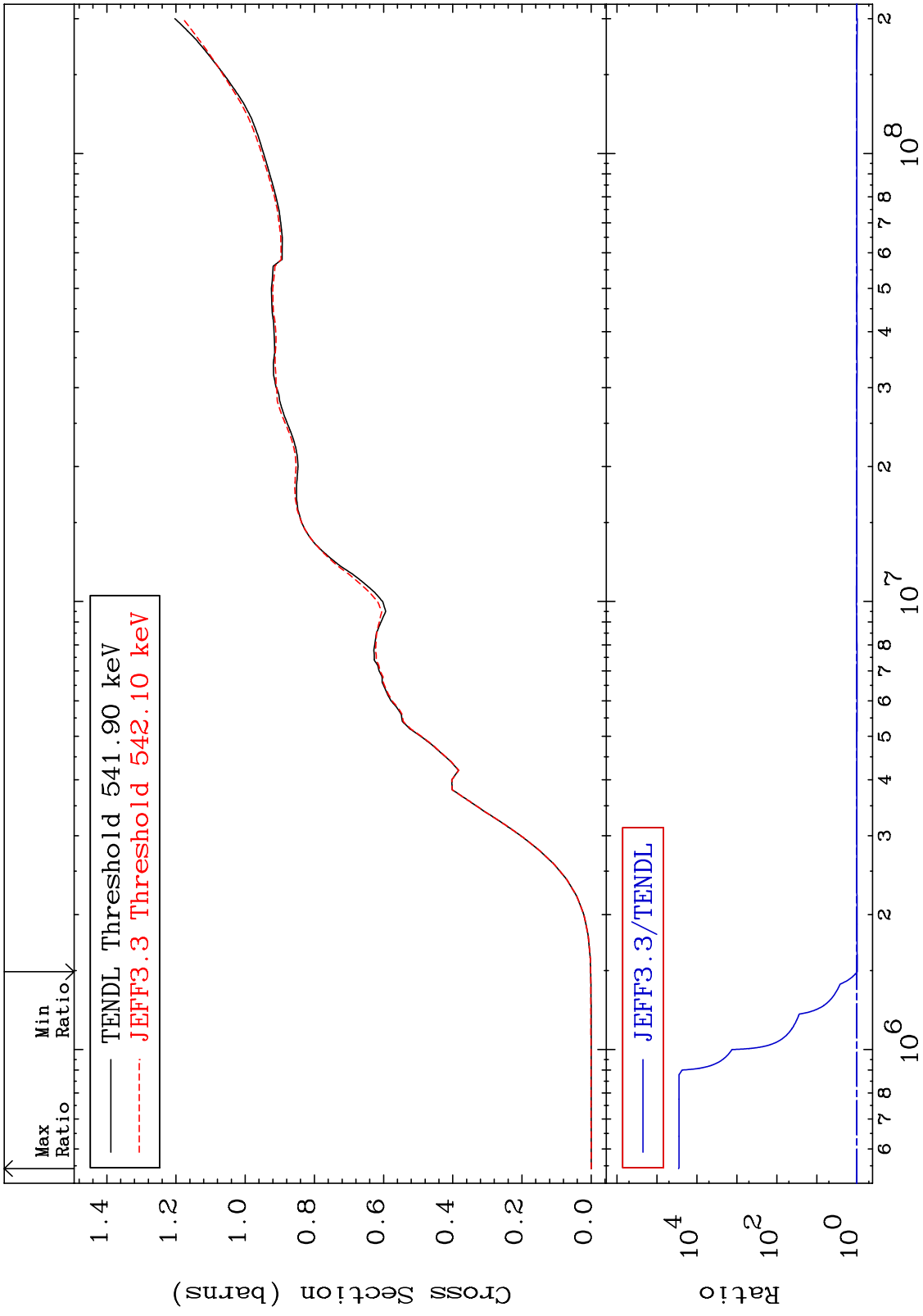
0.000 To 167.2 %



47

Incident Energy (eV)

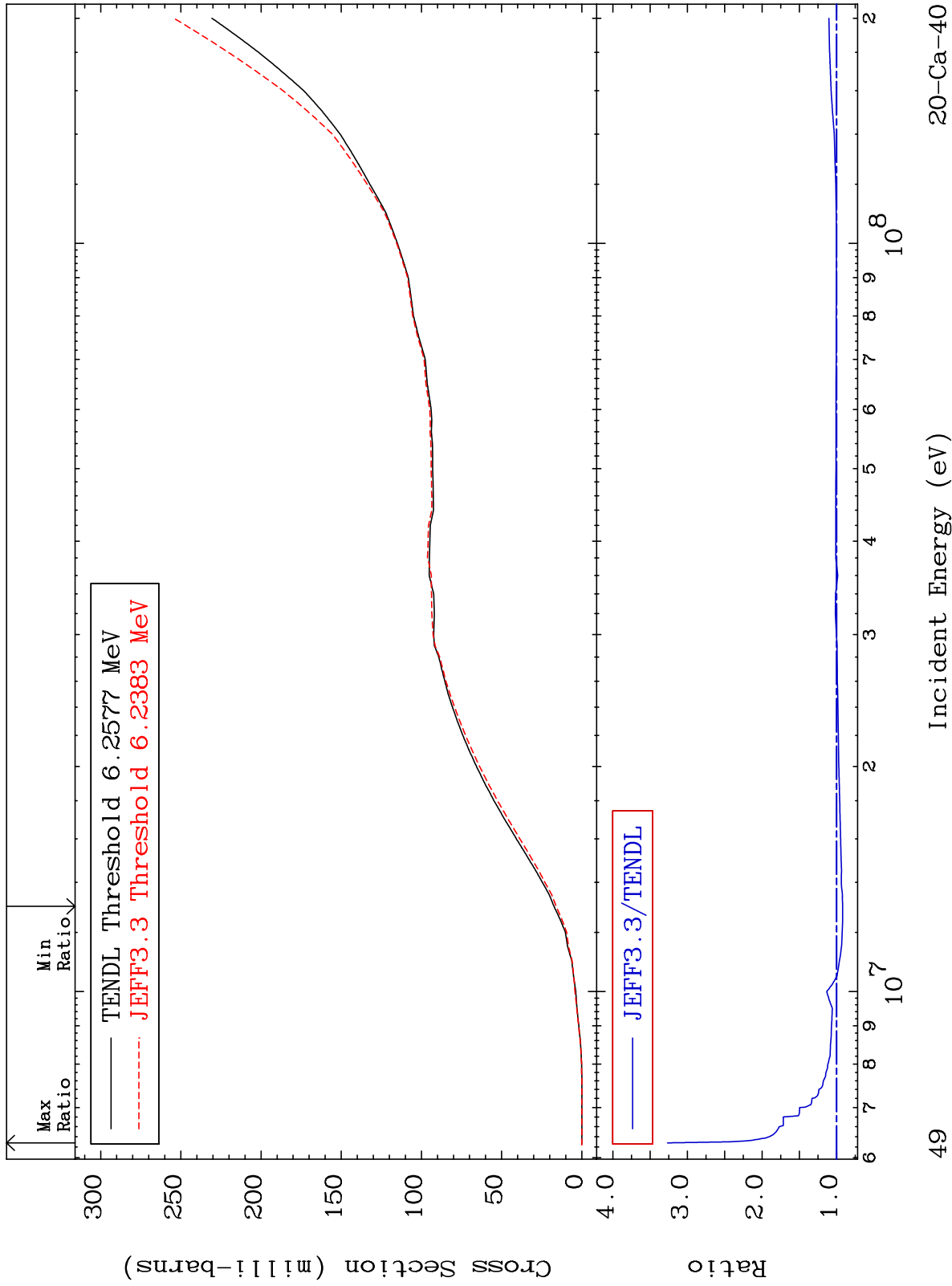
20-Ca-40



MAT 2025

Deuterium Production
Cross Section

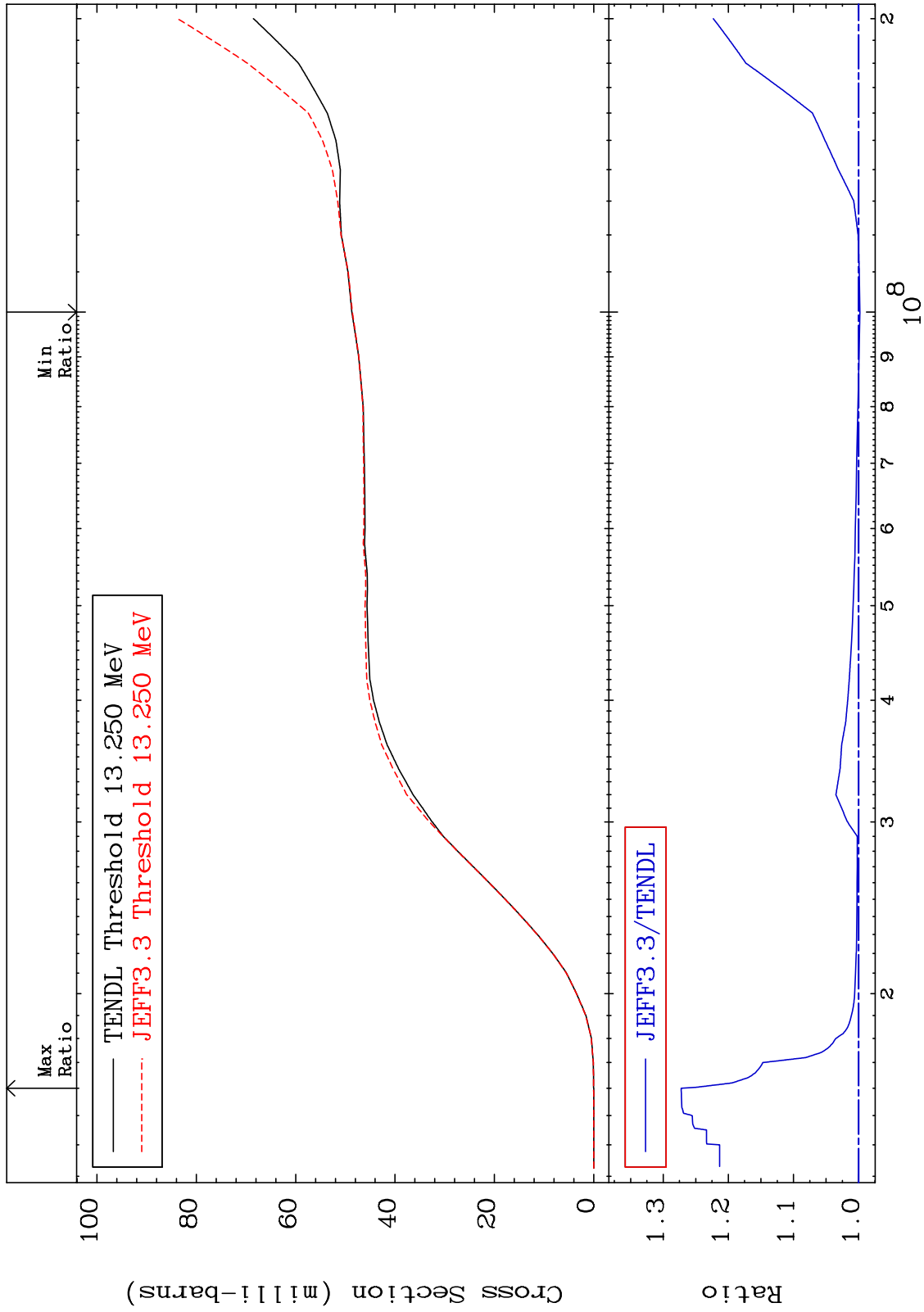
20-Ca-40
-8.064 To 226.6 %



MAT 2025

Tritium Production
Cross Section

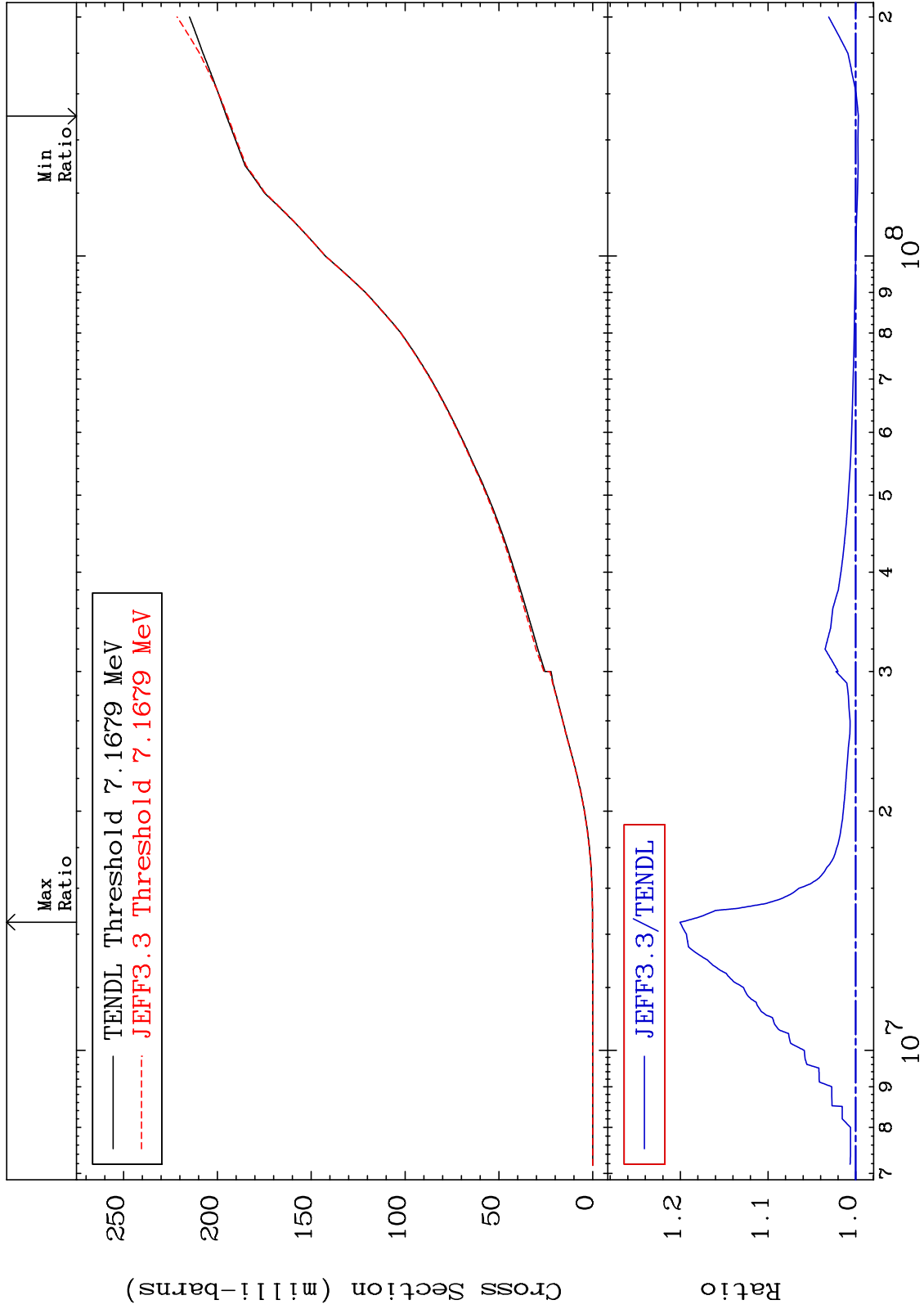
20-Ca-40
-0.195 To 27.23 %



MAT 2025

He-3 Production
Cross Section

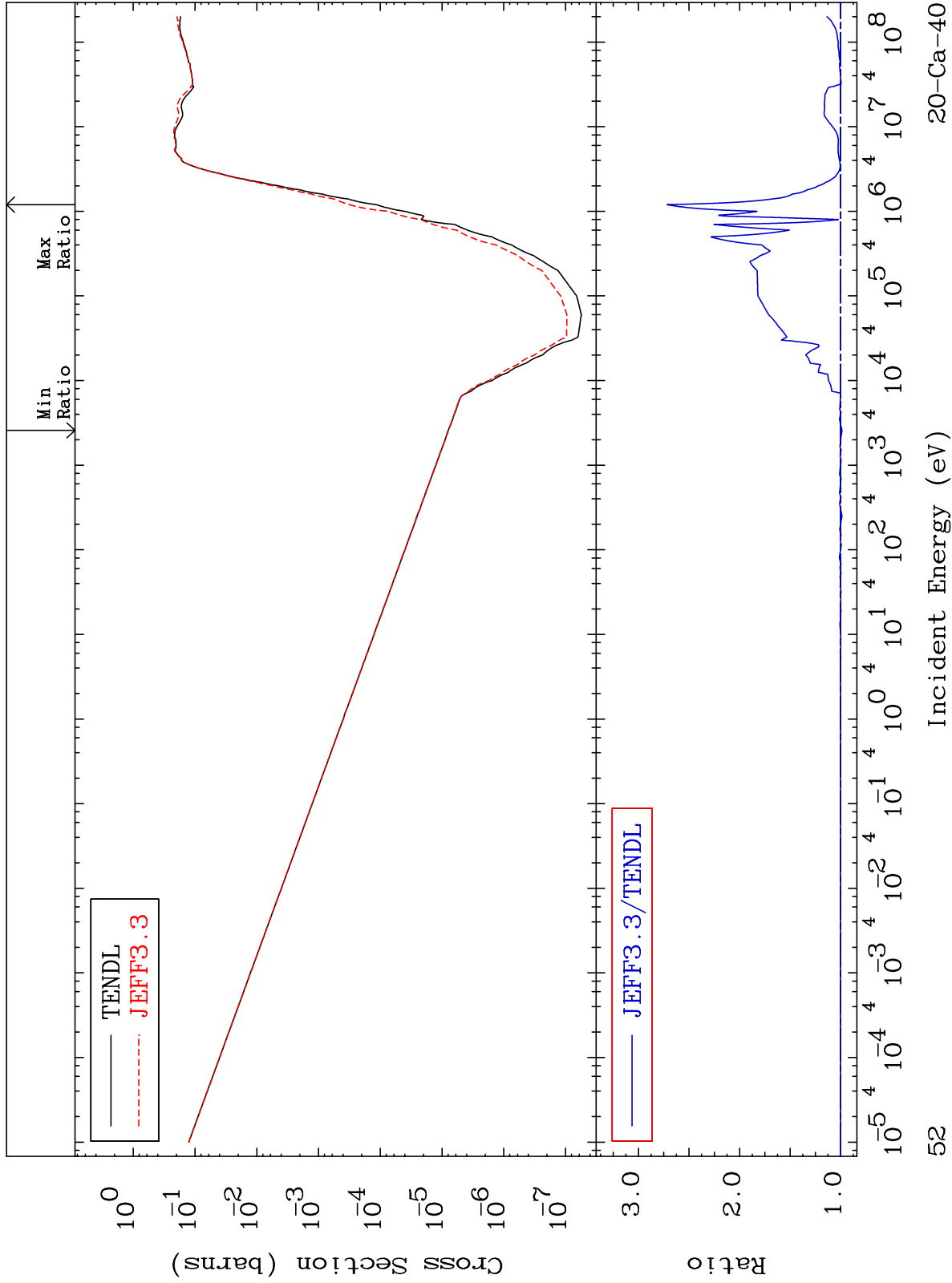
20-Ca-40
-0.312 To 20.04 %



MAT 2025

He-4 Production
Cross Section

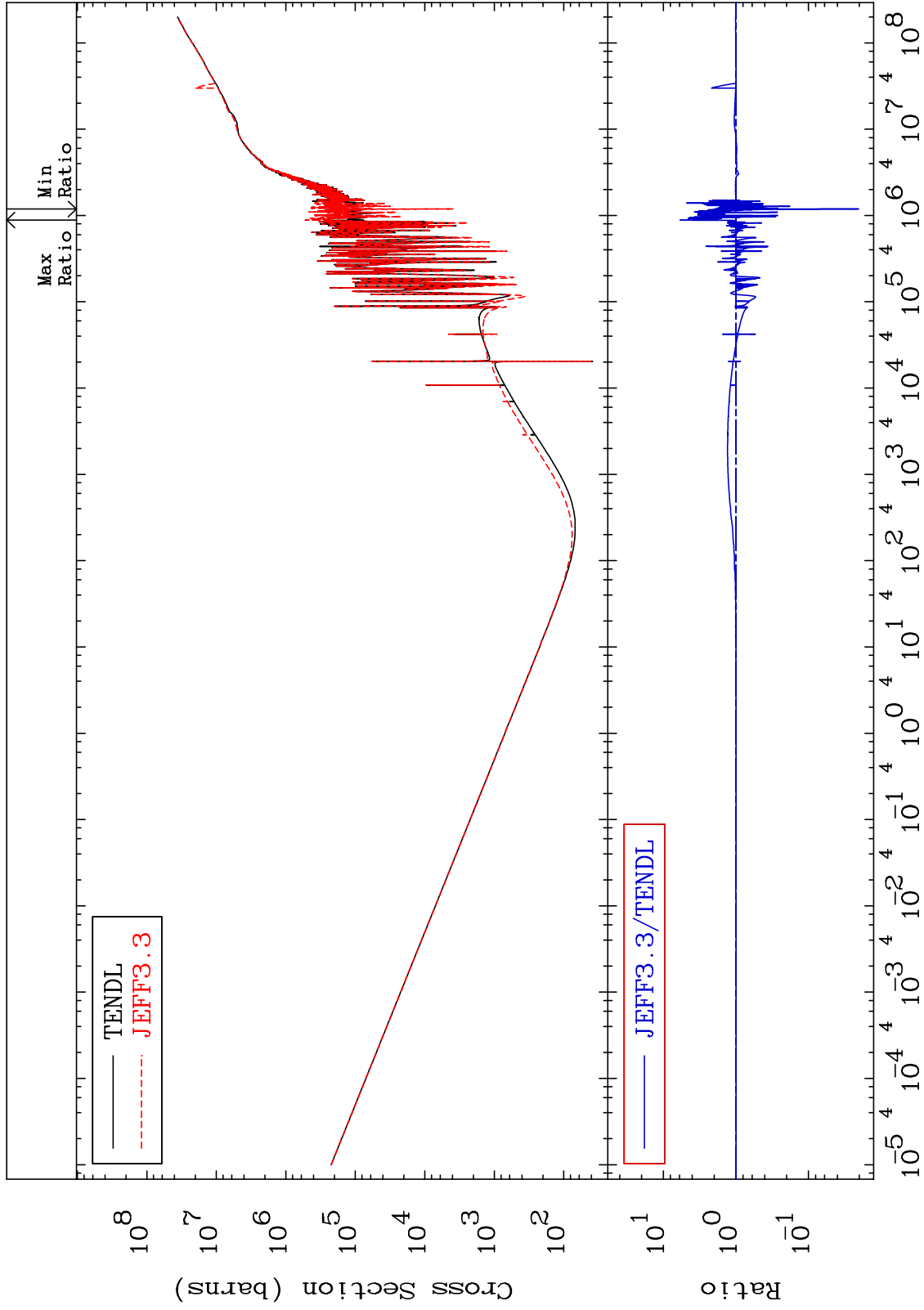
20-Ca-40
-1.366 To 171.8 %



MAT 2025

Kerma total (eV-barns)
Cross Section

20-Ca-40
-97.95 To 489.5 %



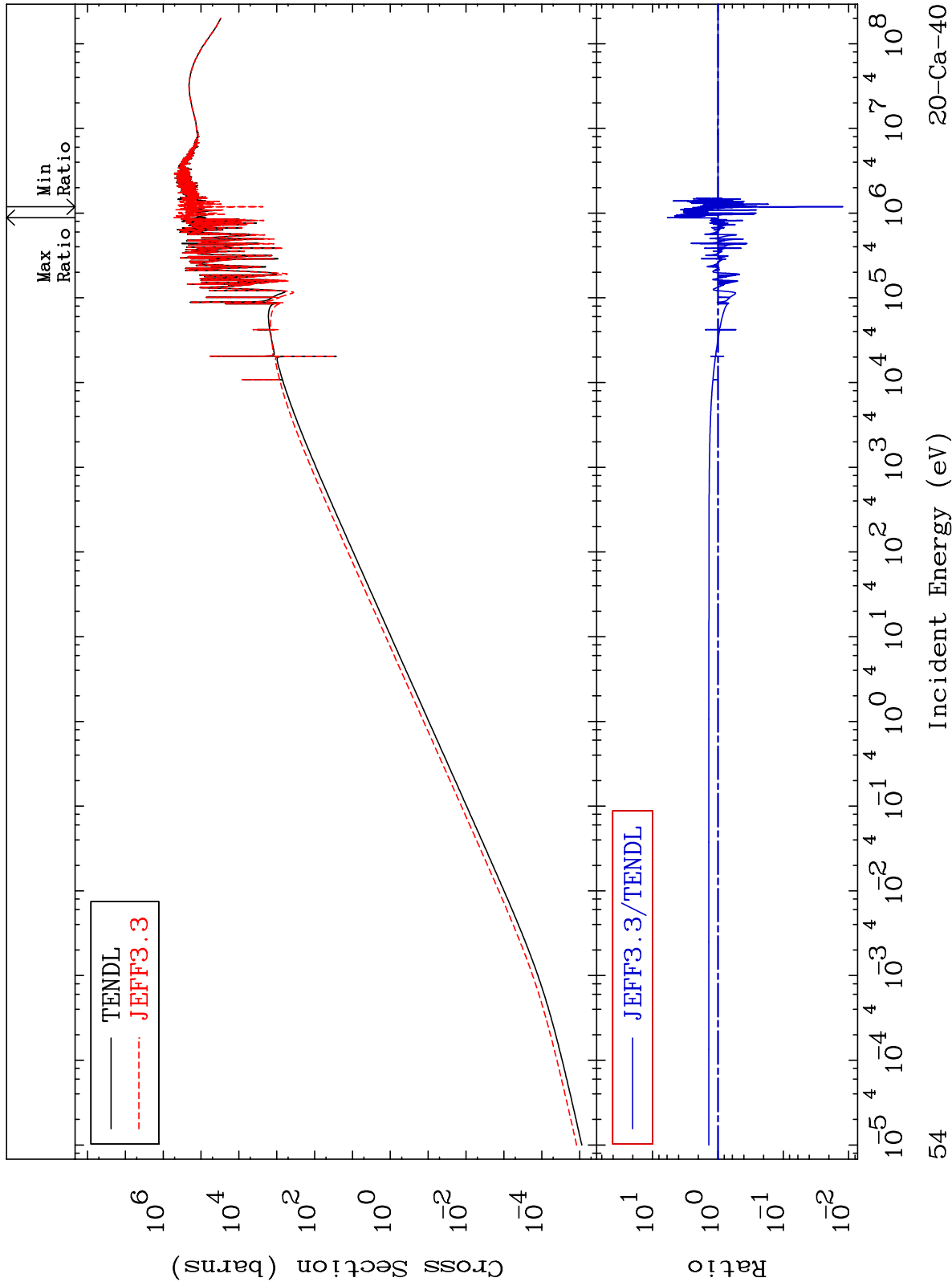
53

20-Ca-40

MAT 2025

Kerma elastic
Cross Section

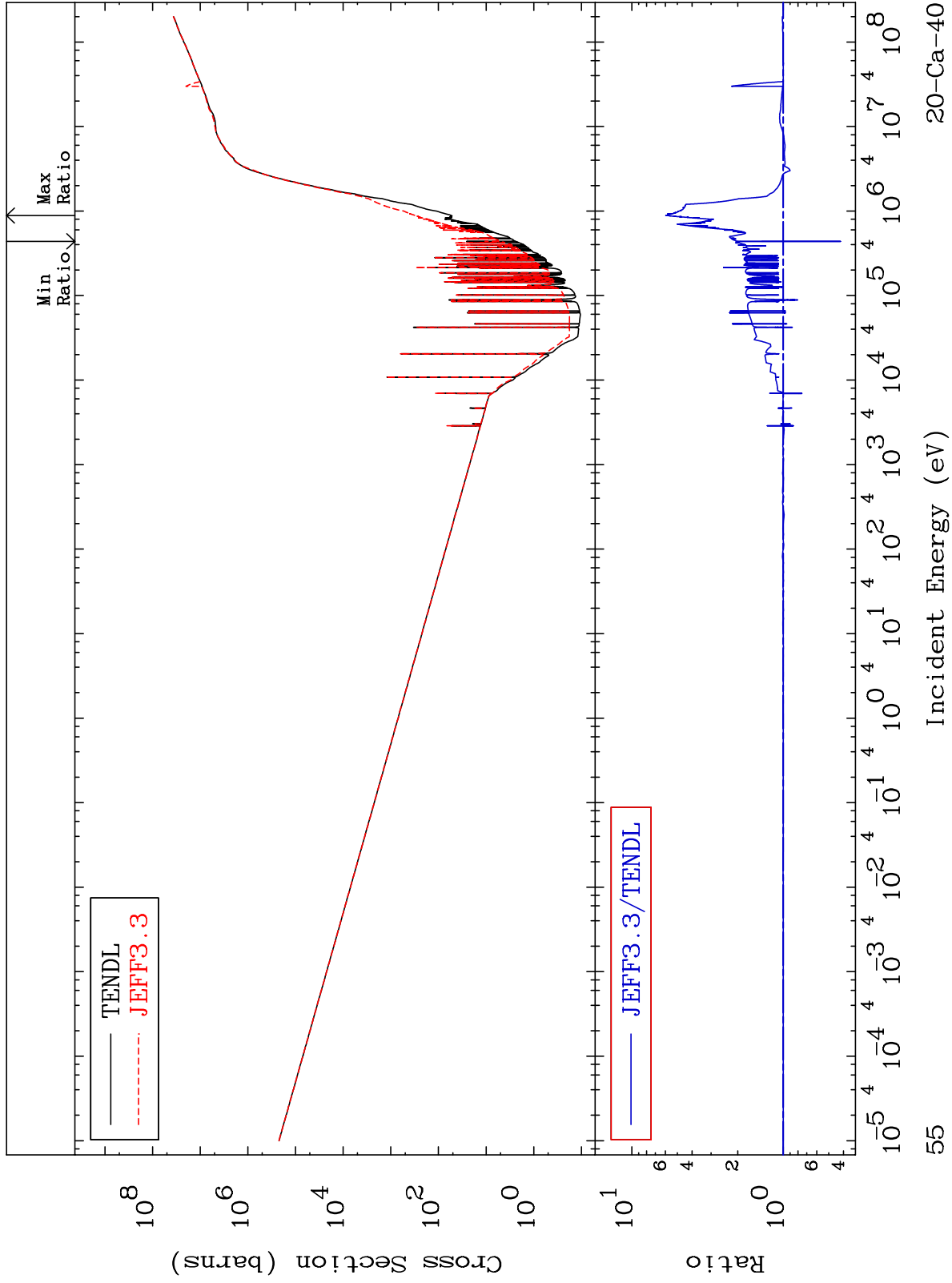
20-Ca-40
-98.77 To 489.5 %



MAT 2025

Kerma non-elastic (all but mt2)
Cross Section

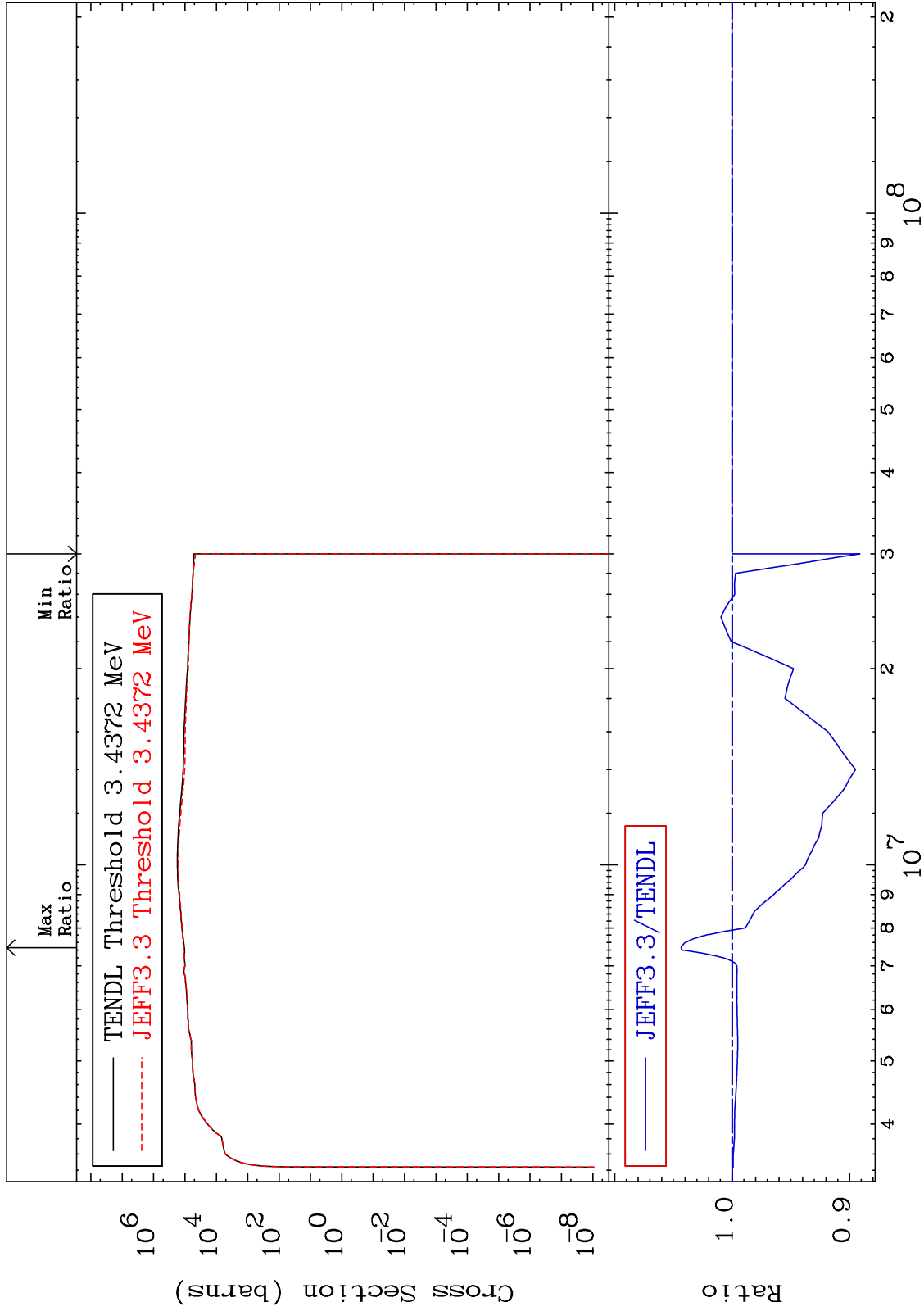
20-Ca-40
-58.17 To 496.1 %



55

Incident Energy (eV)

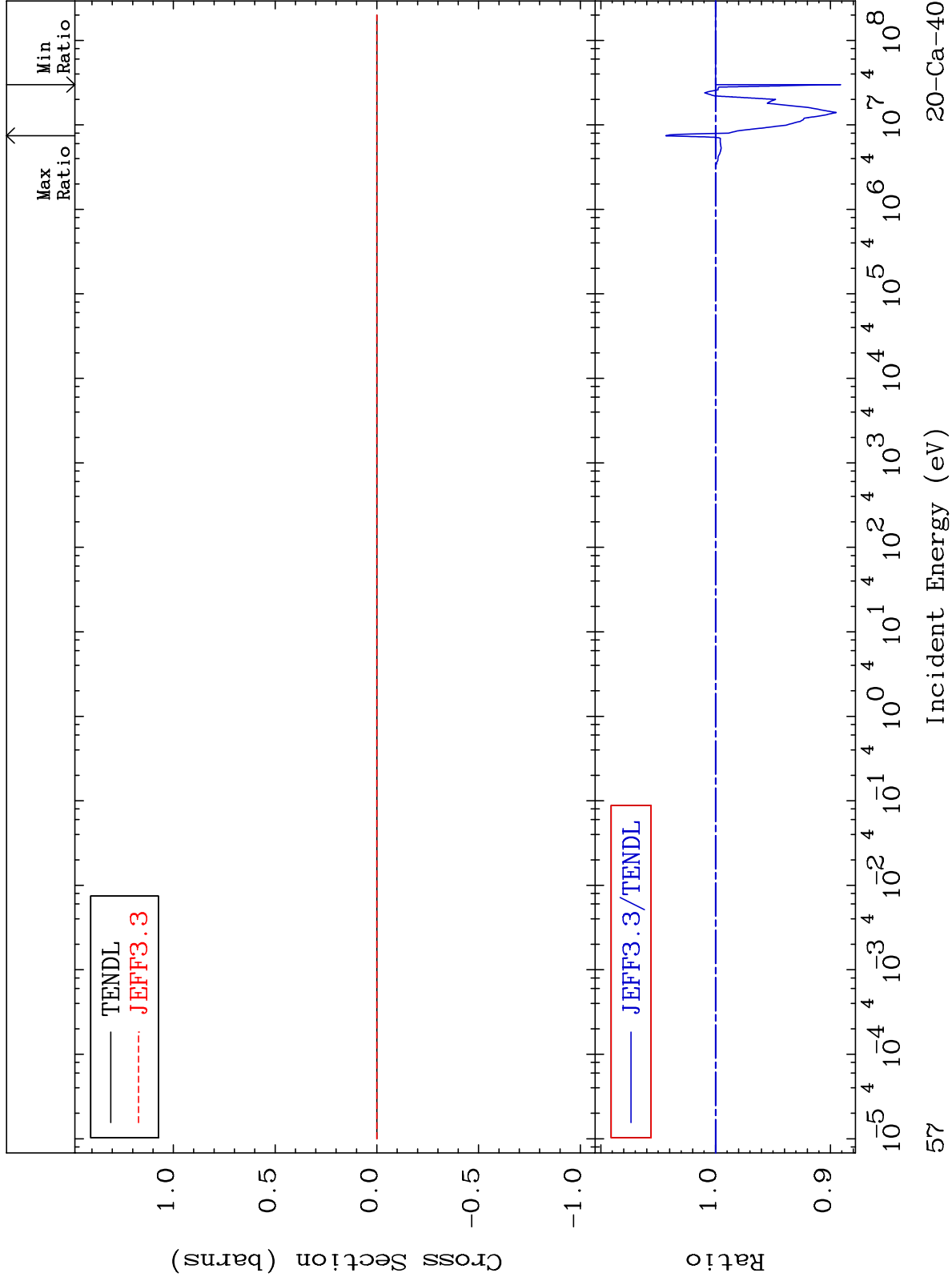
20-Ca-40



MAT 2025

Kerma fission (mt18 or mt19-20-21-38)
Cross Section

20-Ca-40
-10.88 To 4.333 %



57

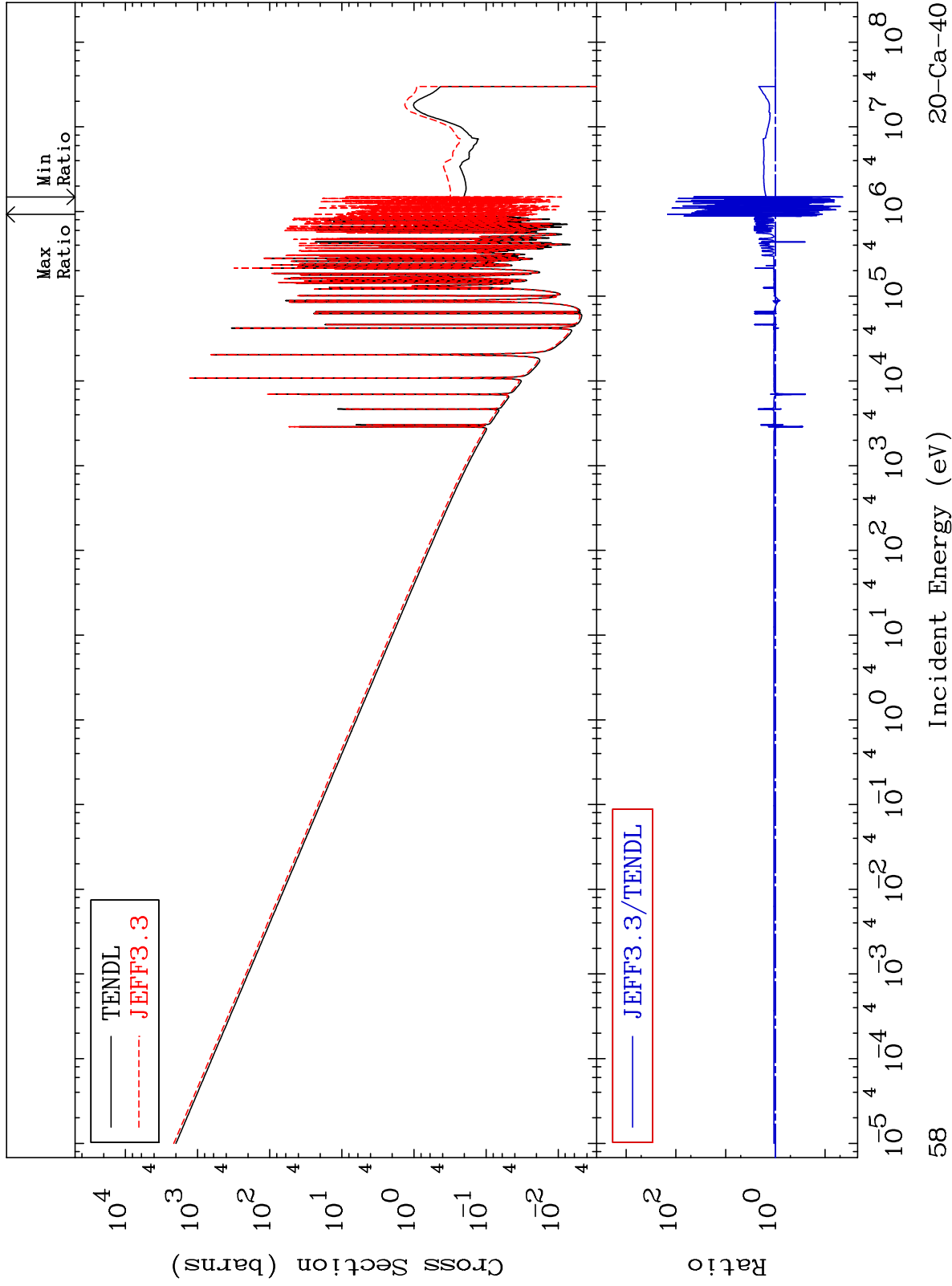
Incident Energy (eV)

20-Ca-40

MAT 2025

Kerma capture (mt102)
Cross Section

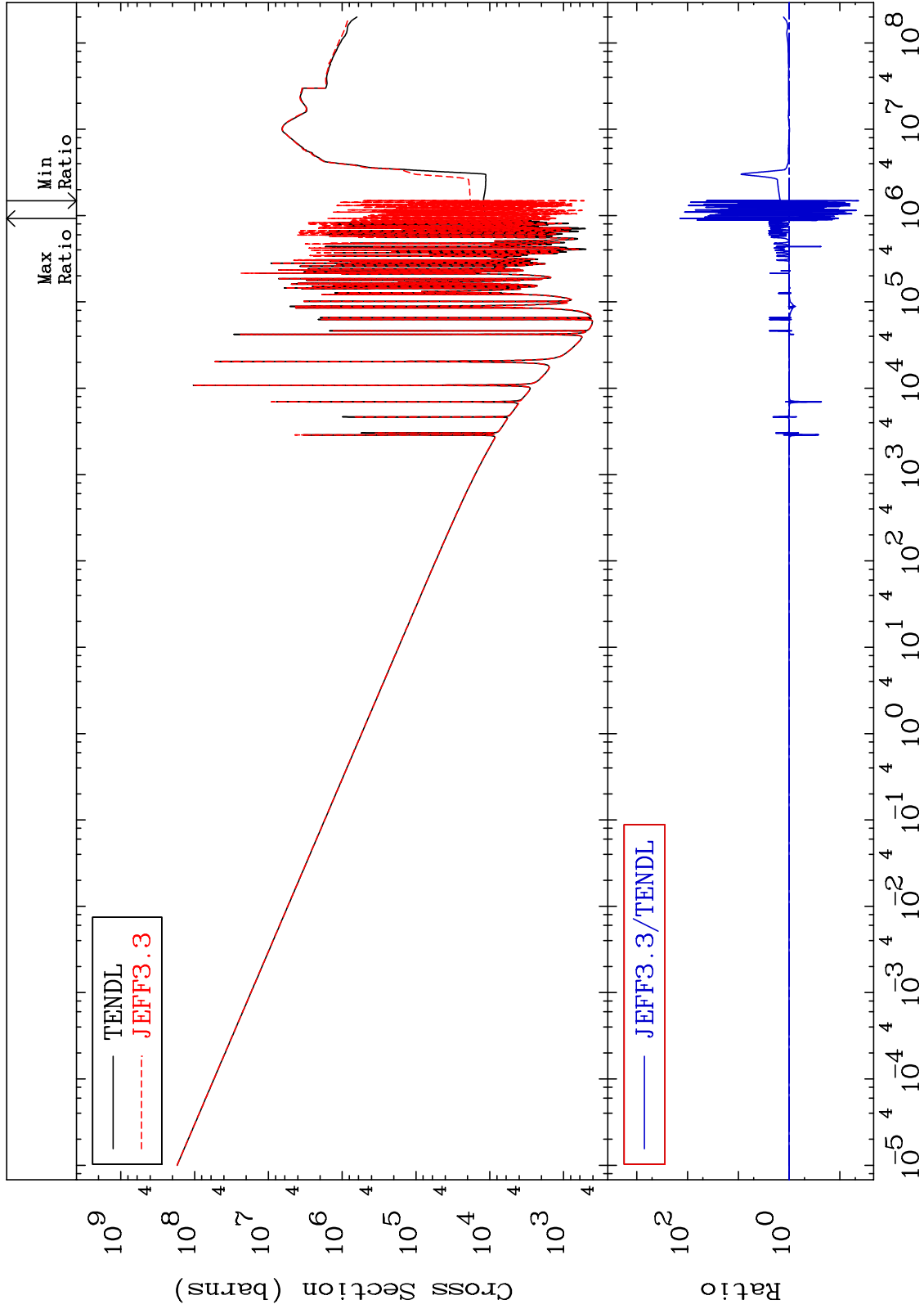
20-Ca-40
-95.56 To 9999. %



MAT 2025

Total photon (eV-barns)
Cross Section

20-Ca-40
-95.67 To 9999. %



59

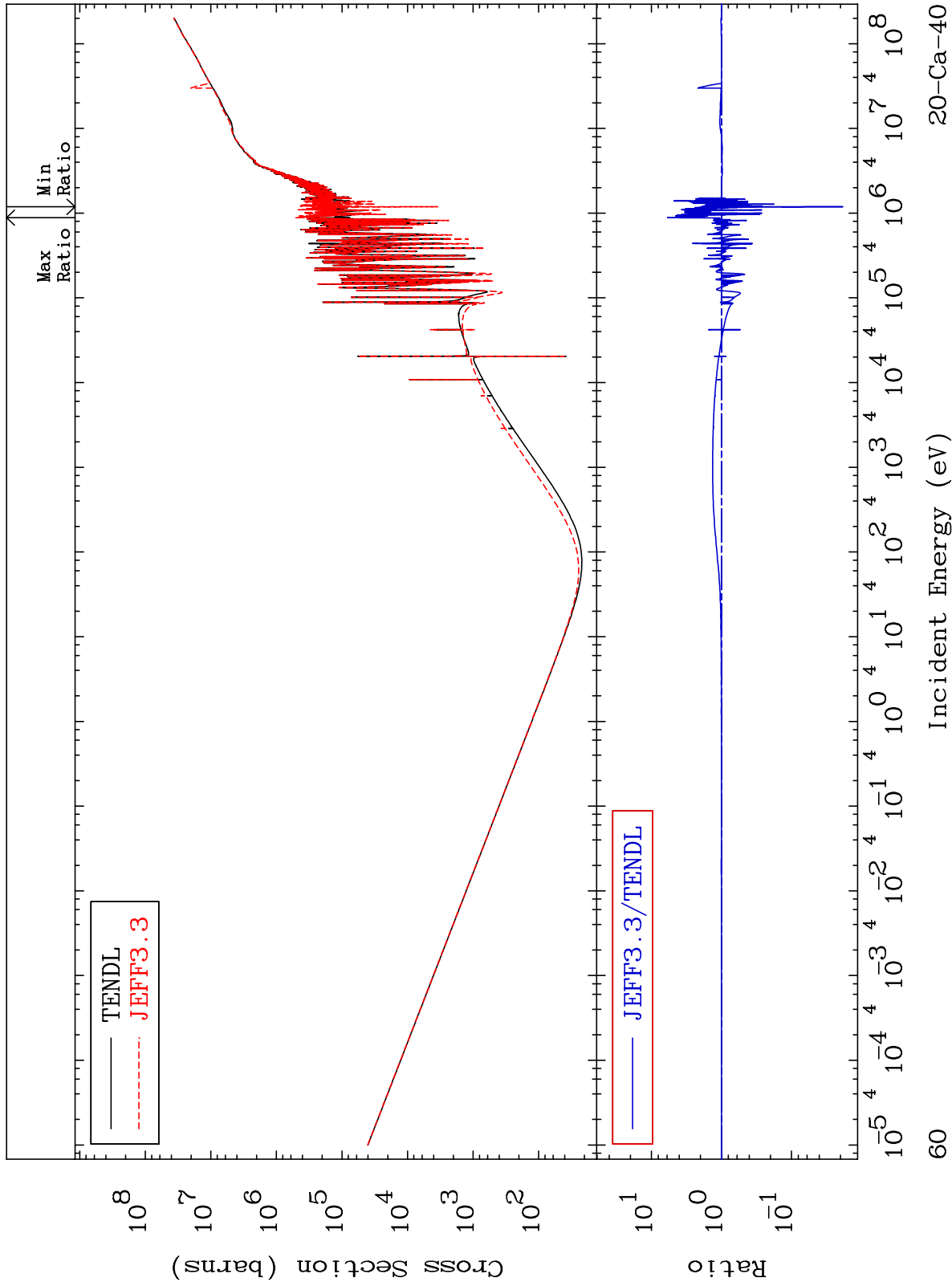
Incident Energy (eV)

20-Ca-40

MAT 2025

Total kinematic kerma (high limit)
Cross Section

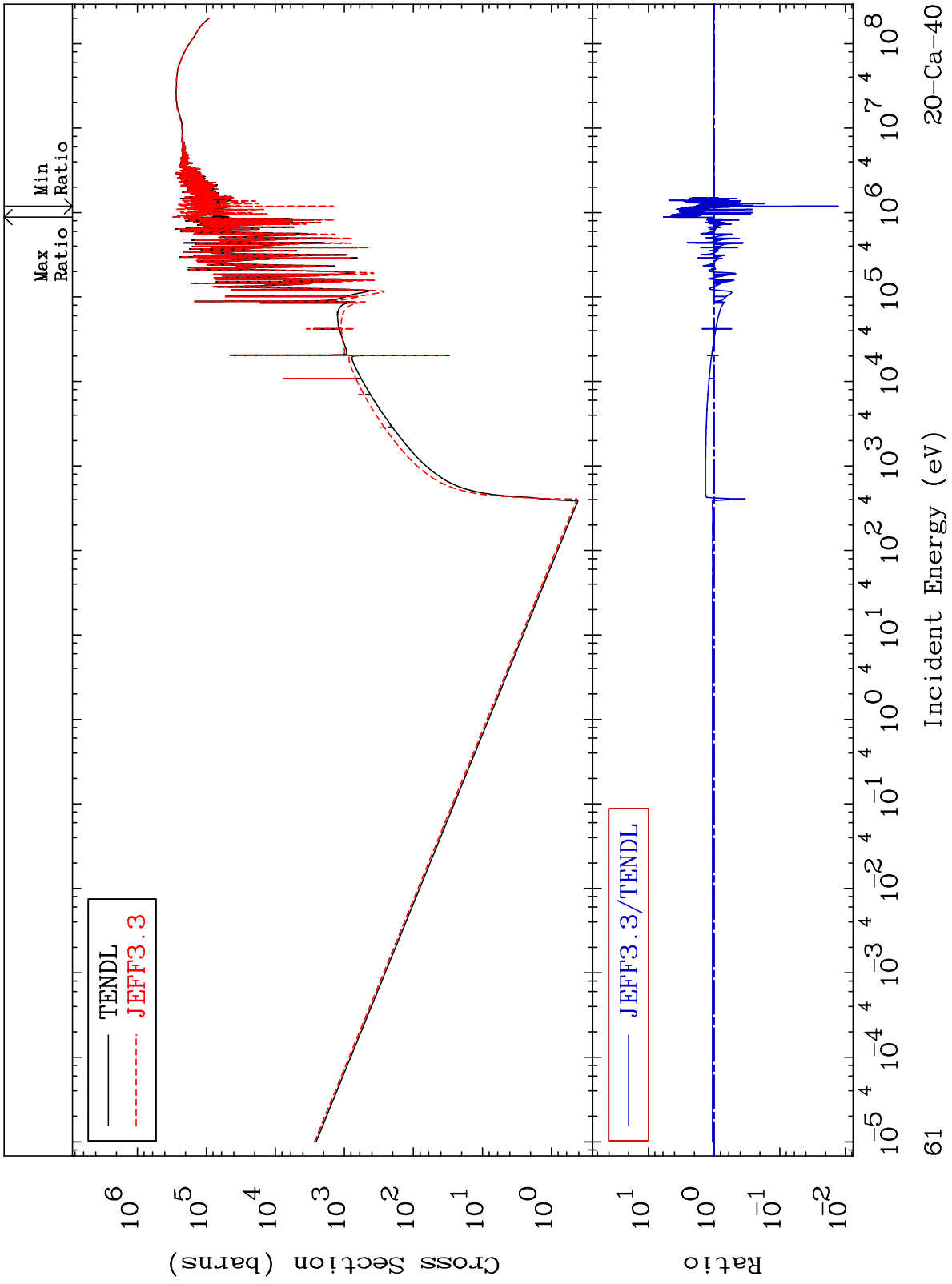
20-Ca-40
-98.14 To 489.5 %



MAT 2025

Dpa total (eV-barns)
Cross Section

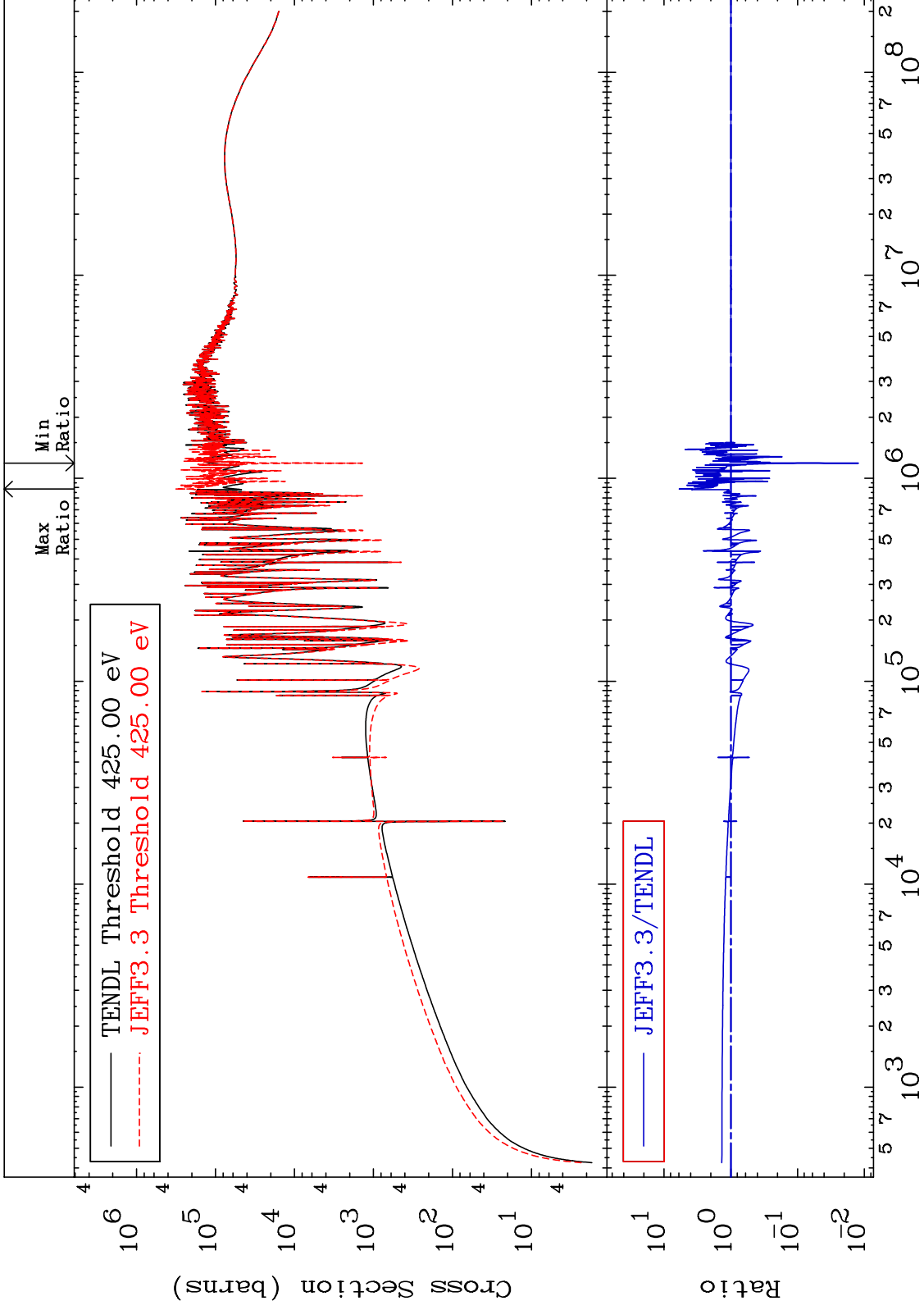
20-Ca-40
-98.71 To 489.8 %



MAT 2025

Dpa elastic (mt2)
Cross Section

20-Ca-40
-98.76 To 489.7 %



62

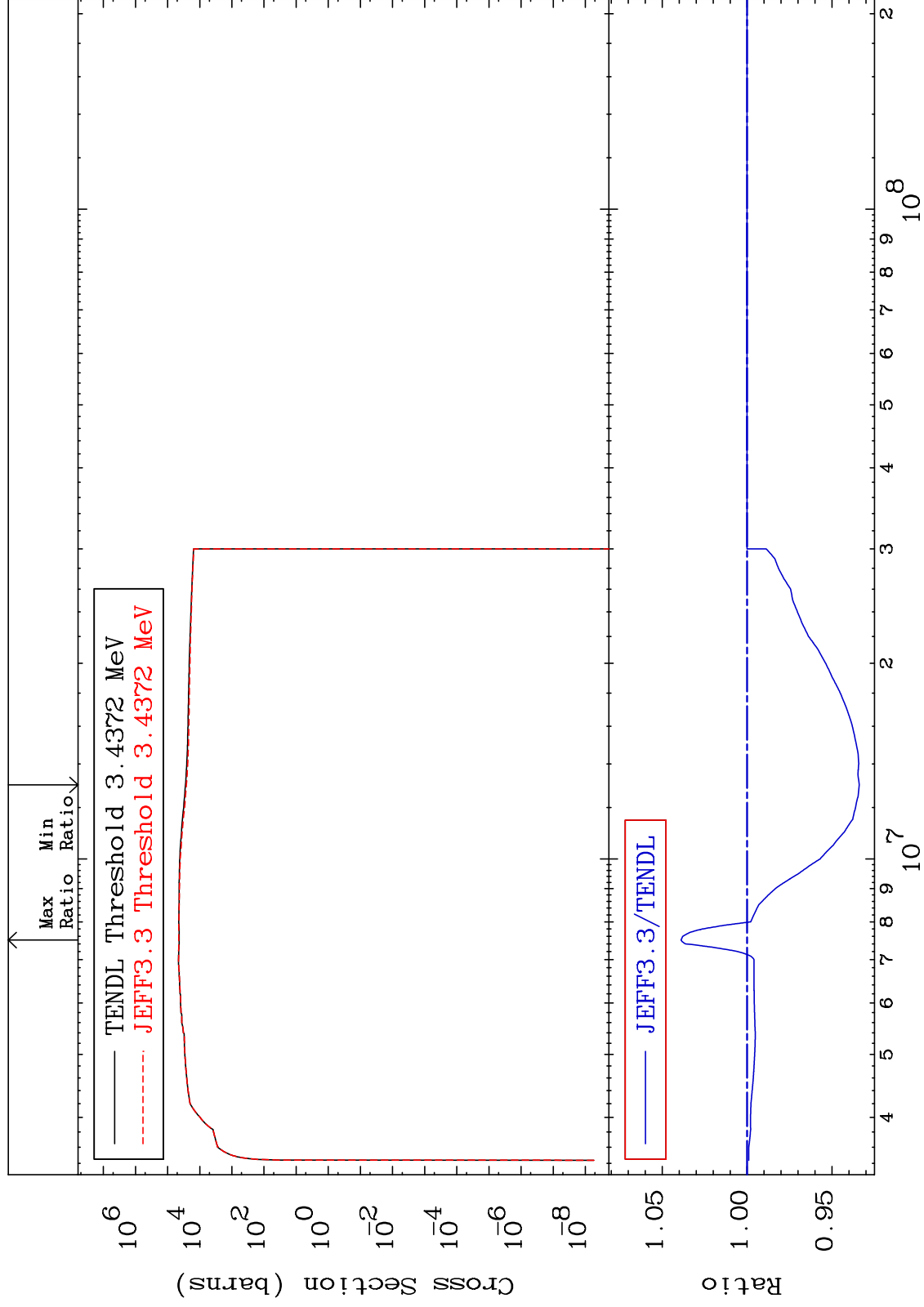
Incident Energy (eV)

20-Ca-40

MAT 2025

Dpa inelastic (mt51-91)
Cross Section

20-Ca-40
-6.601 To 3.888 %



63

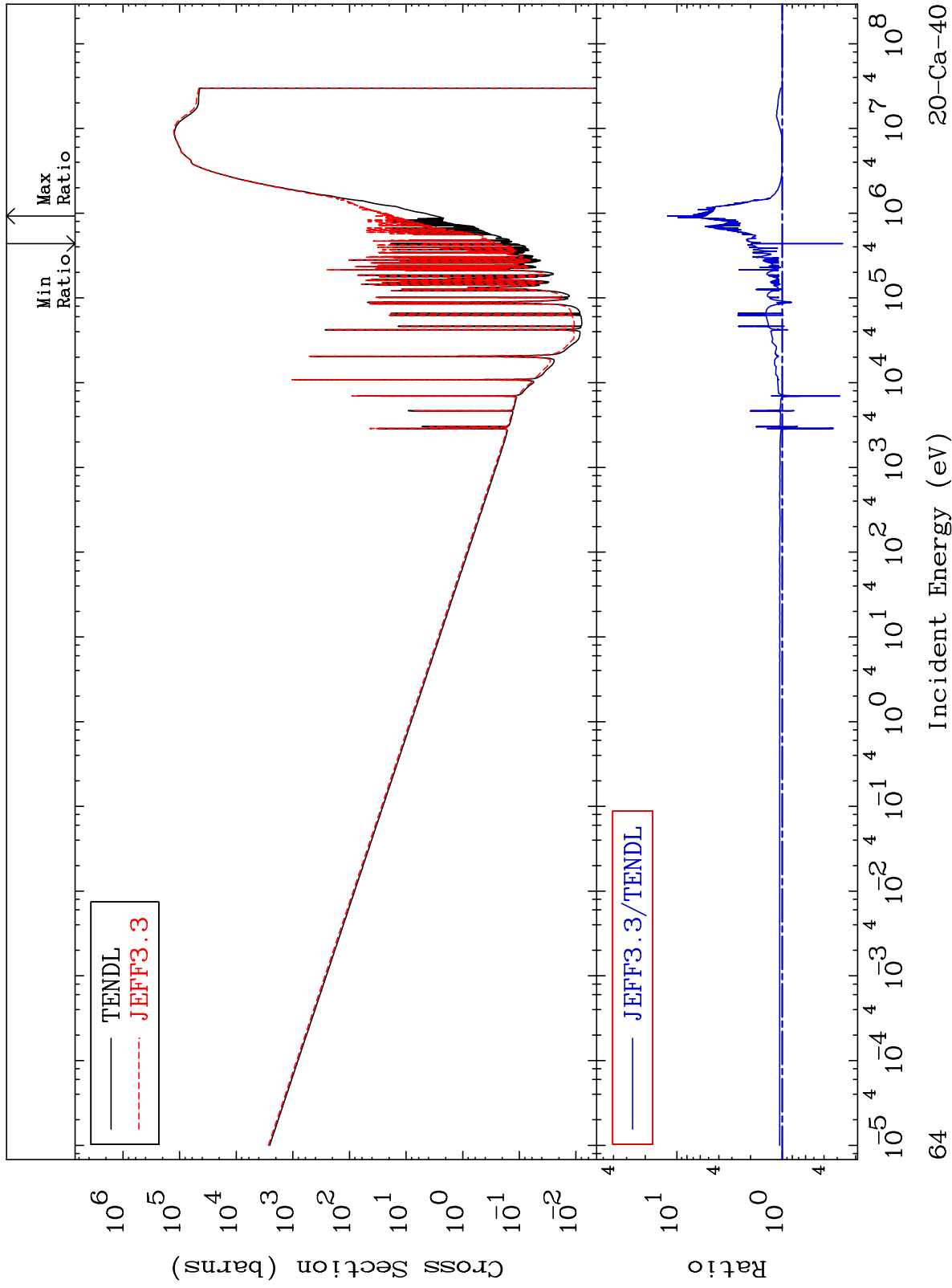
Incident Energy (eV)

20-Ca-40

MAT 2025

Dpa disappearance (mt102 -120)
Cross Section

20-Ca-40
-73.37 To 1126. %

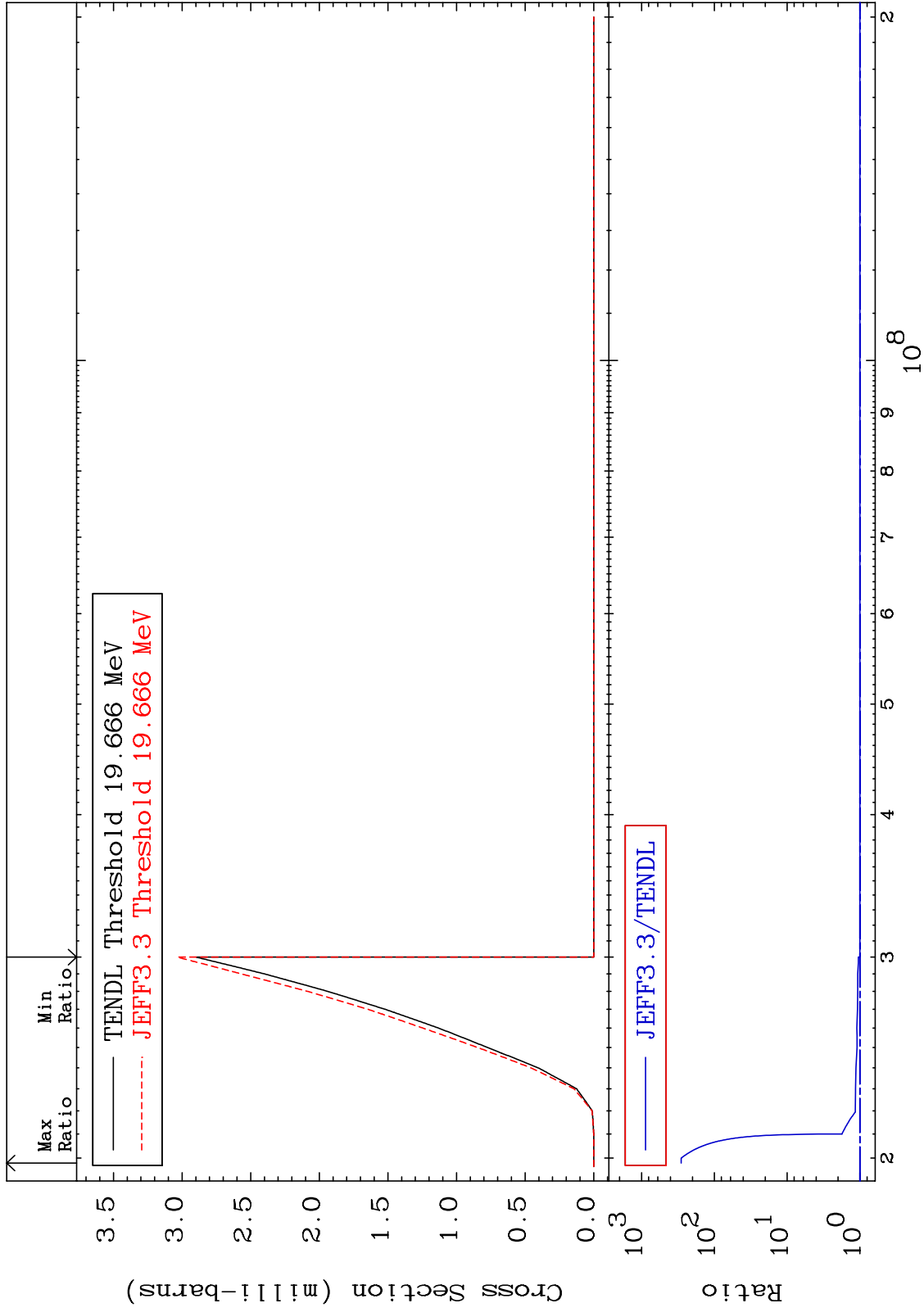


MAT 2025

(n, n') d: 19-K -38g

20-Ca-40

Radionuclide Production Cross Section 0.000 To 9999. %

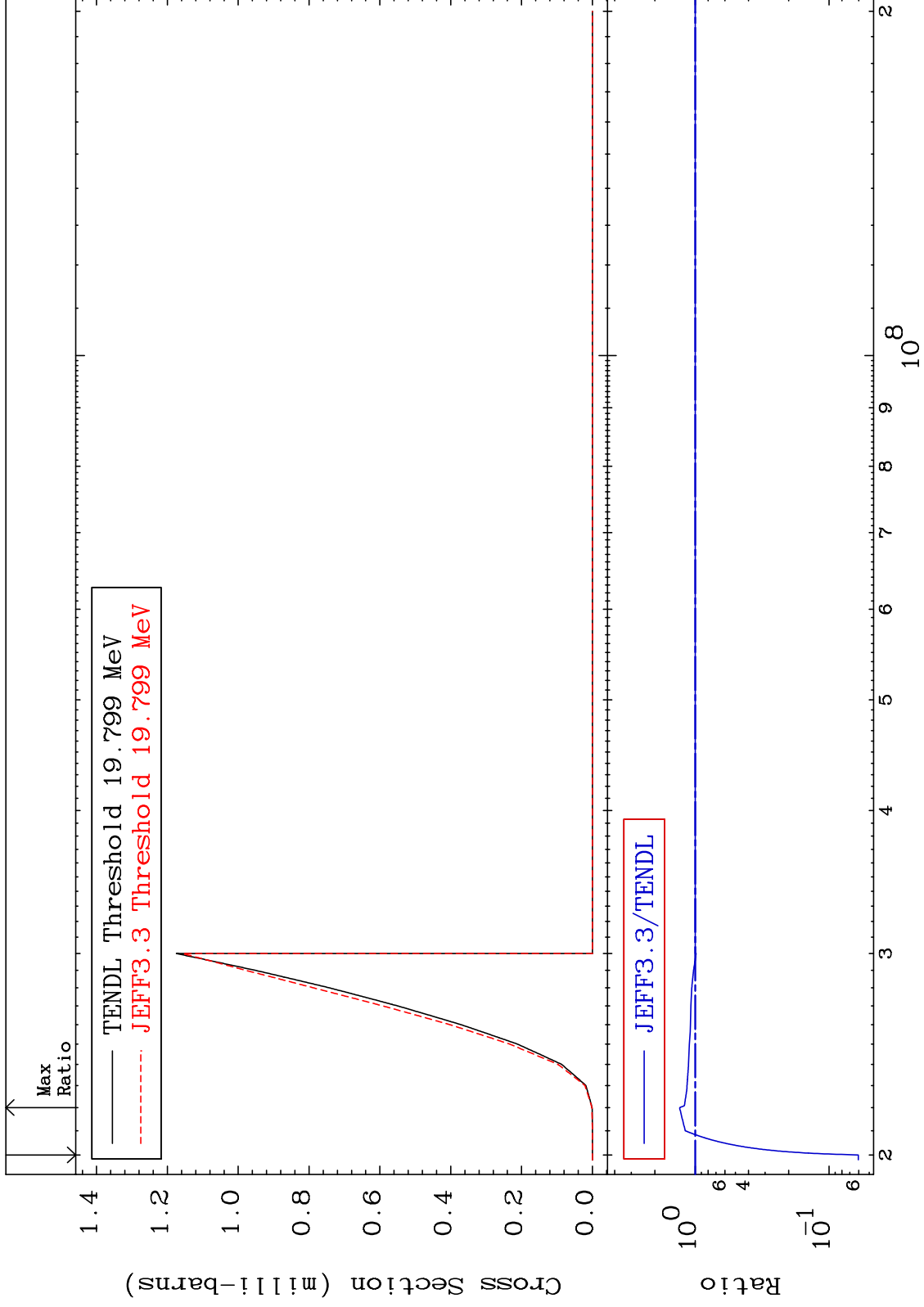


65

Incident Energy (eV)

20-Ca-40

Radionuclide Production Cross Section -93.96 To 30.31 %

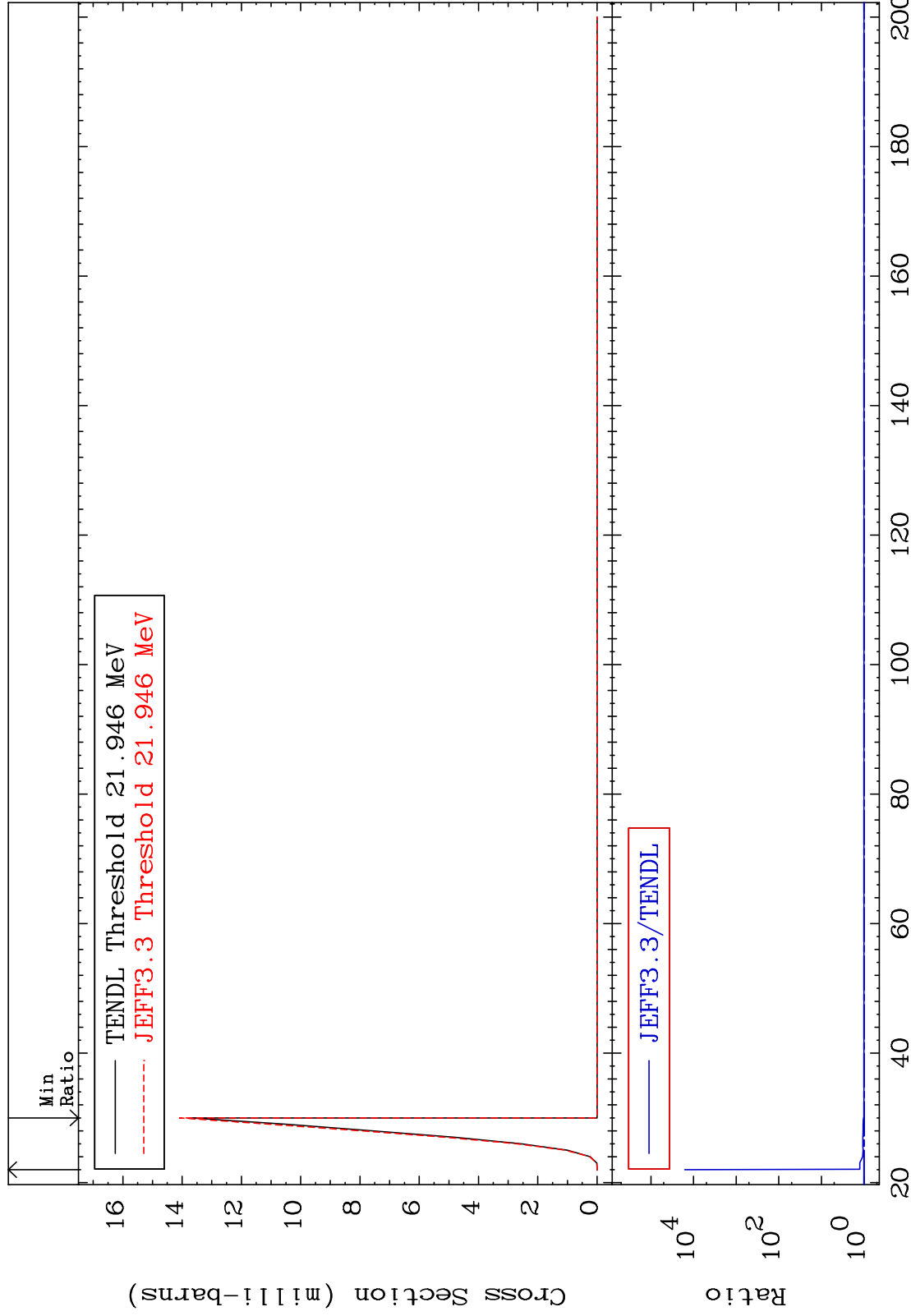


MAT 2025

(n,2n) p:19-K -38g

20-Ca-40

Radionuclide Production Cross Section 0.000 To 9999. %



67

Incident Energy (MeV)

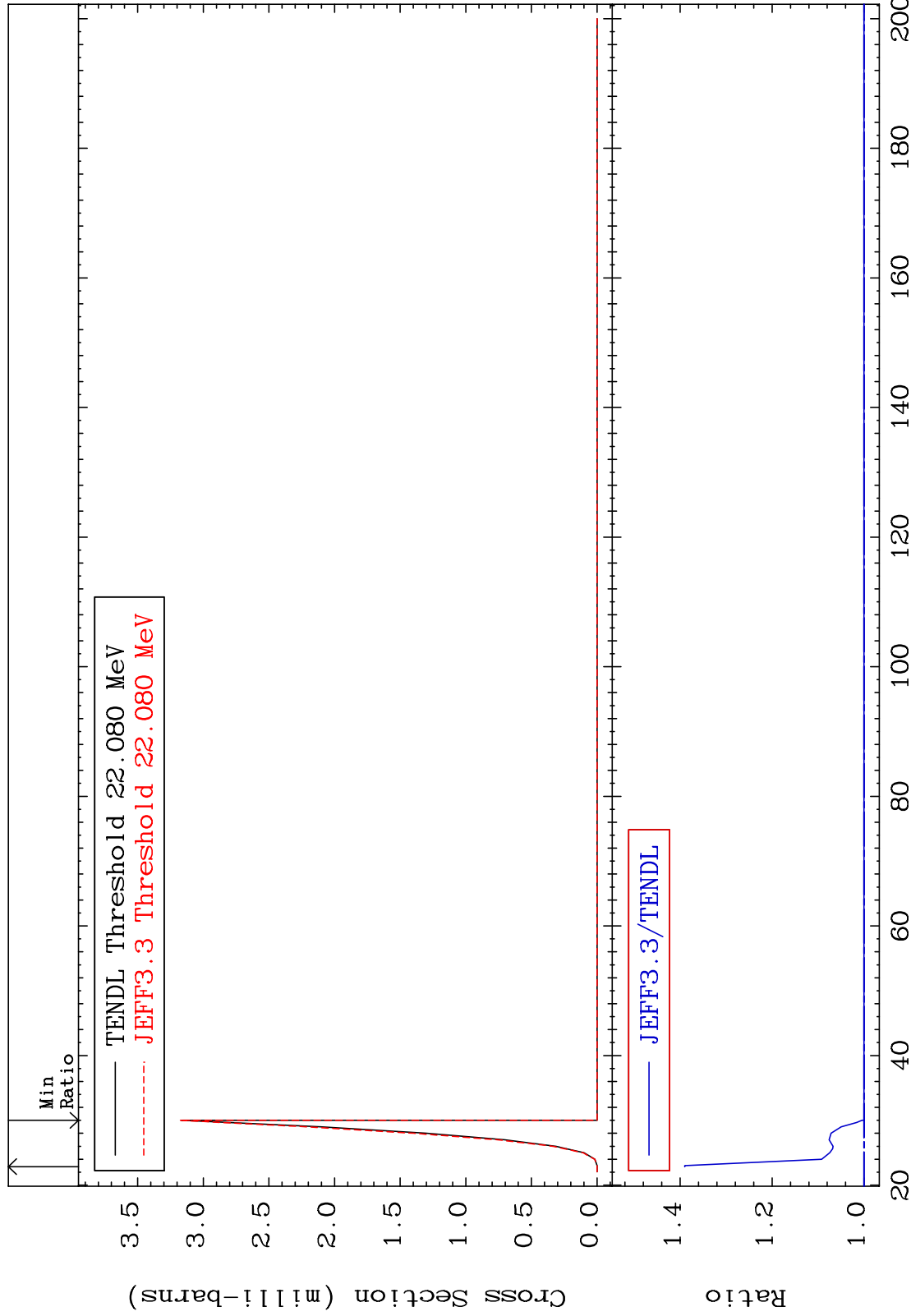
20-Ca-40

MAT 2025

(n,2n) p:19-K -38m1

20-Ca-40

Radionuclide Production Cross Section 0.000 To 38.99 %



68

Incident Energy (MeV)

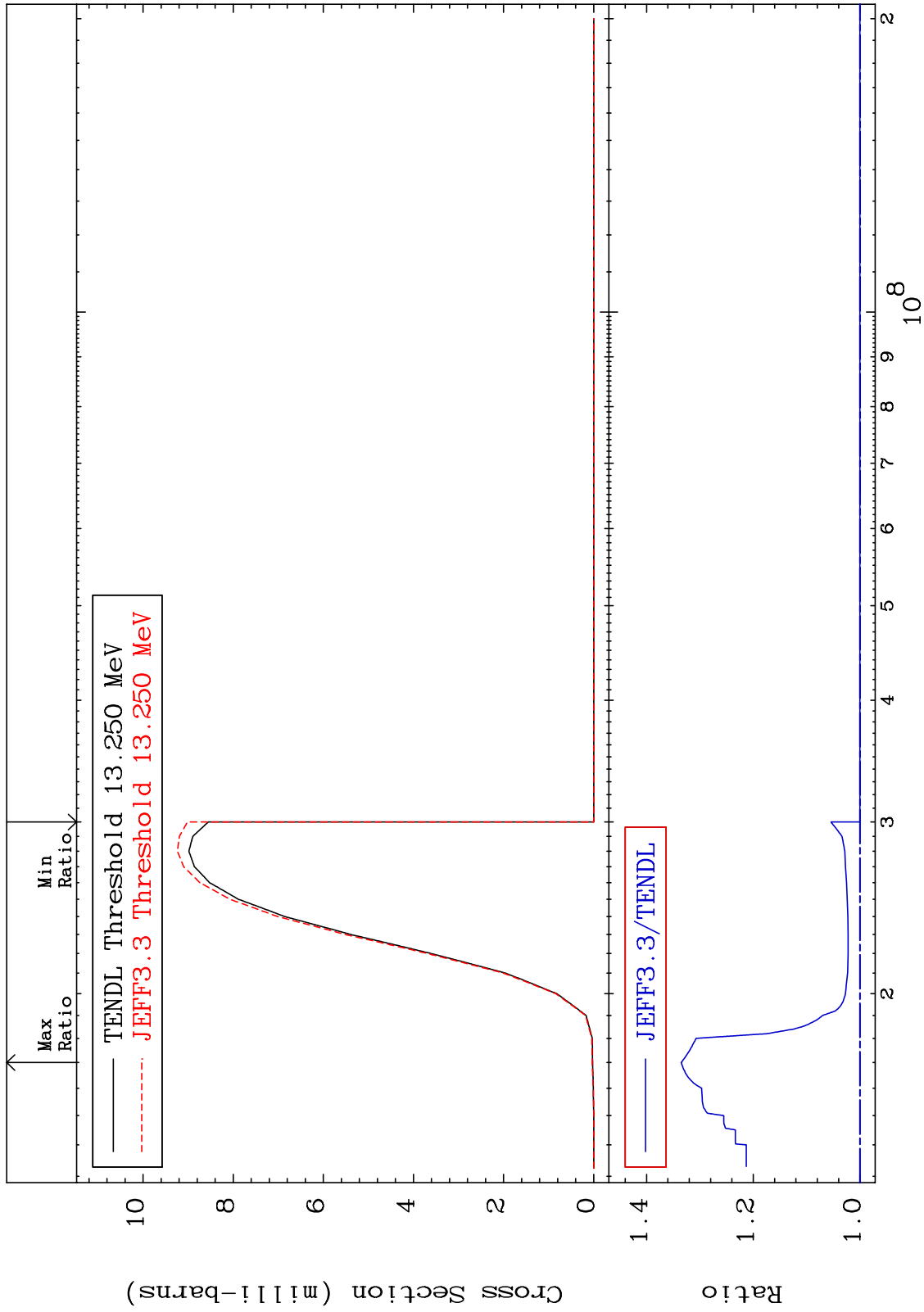
20-Ca-40

MAT 2025

(n, t) : 19-K -38g

20-Ca-40

Radionuclide Production Cross Section 0.000 To 33.50 %

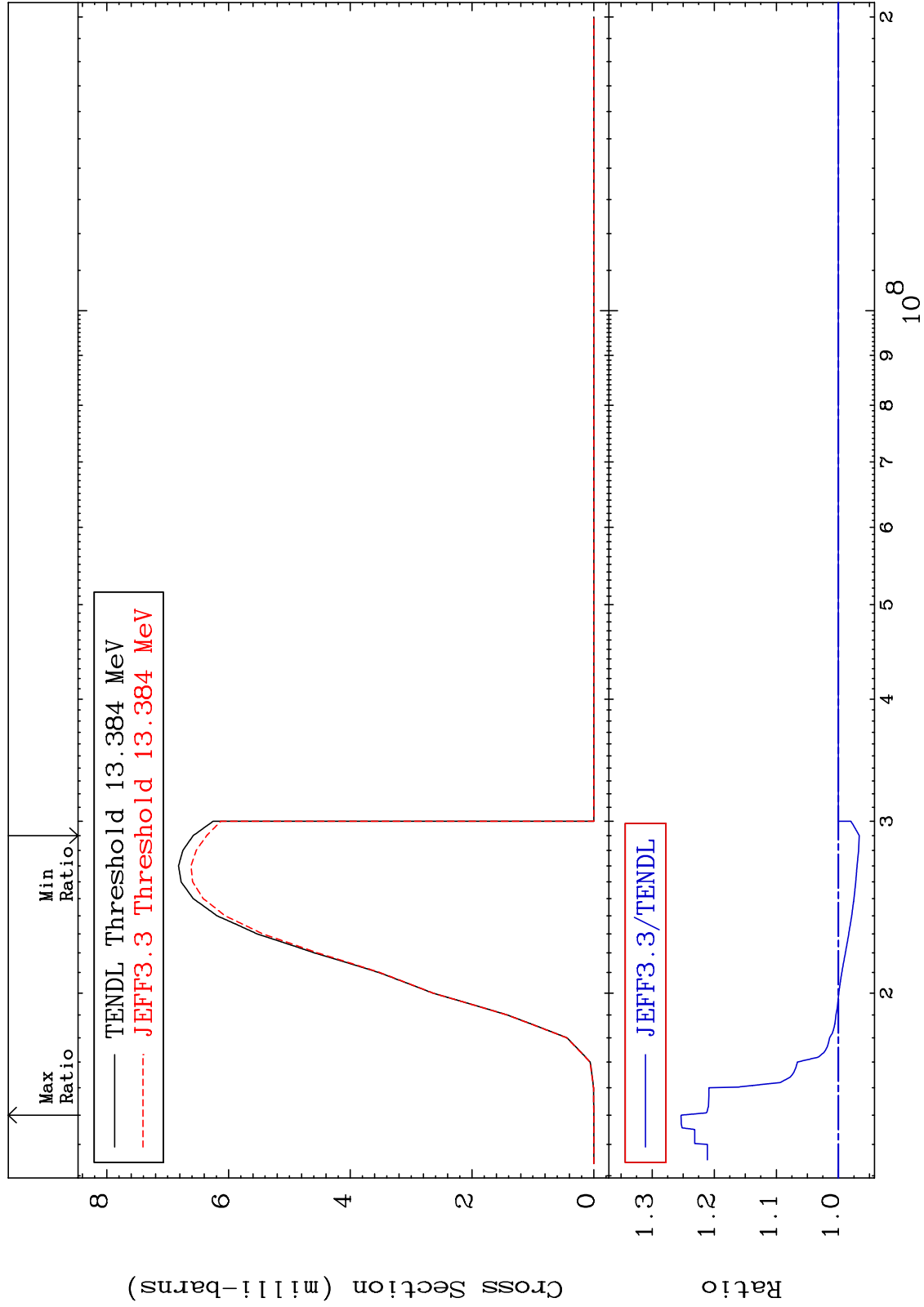


MAT 2025

(n, t): 19-K -38m1

20-Ca-40

Radionuclide Production Cross Section -3.359 To 25.35 %



70

Incident Energy (eV)

20-Ca-40